DSC-W55

SERVICE MANUAL

LEVEL 2

Ver 1.1 2007.03
Revision History

How to use
Acrobat Reader

Internal memory
ON BOARD

Photo: Silver

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Hong Kong Model
Chinese Model
Korea Model
Argentine Model
Brazilian Model
Tourist Model

Link

SPECIFICATIONS	BLOCK DIAGRAMS	PRINTED WIRING BOARDS
SERVICE NOTE	FRAME SCHEMATIC DIAGRAM	REPAIR PARTS LIST
DISASSEMBLY	SCHEMATIC DIAGRAMS	

- Precaution on Replacing the SY-176 Board

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

DIGITAL STILL CAMERA

SONY

DSC-W55_L2
9-852-160-32

Sony EMCS Co.

2007C0800-1

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Published by Kohda TEC

Self Diagnosis Supported model Cyber-shot MEMORY STICK ™ LITHIUM ION G TYPE

SPECIFICATIONS

Camera

[System]

Image device: 7.20 mm (1/2.5 type) color CCD, Primary color filter
Total pixel number of camera: Approx. 7 410 000 pixels
Effective pixel number of camera: Approx. 7 201 000 pixels
Lens: Carl Zeiss Vario-Tessar 3× zoom lens f = 6.3 – 18.9 mm (38 – 114 mm when converted to a 35 mm still camera) F2.8 –5.2
Exposure control: Automatic exposure, Scene Selection (7 modes)
White balance:Automatic, Daylight, Cloudy, Fluorescent, Incandescent, Flash
File format (DCF compliant):
Still images: Exif Ver. 2.21 JPEG compliant, DPOF compatible
Movies: MPEG1 compliant (Monaural)
Recording media:Internal Memory (approx. 56 MB), "Memory Stick Duo"
Flash: Flash range (ISO sensitivity (Recommended Exposure Index) set to Auto): approx. 0.2 to 3.9 m (7 7/8 inches to 12 feet 9 5/8 inches) (W)/approx. 0.3 to 2.0 m (11 7/8 inches to 6 feet 6 3/4 inches) (T)

[Input and Output connectors]

Multi connector: Video, Audio (Monaural), USB communication
USB communication: Hi-Speed USB (USB 2.0 compliant)

[LCD screen]

LCD panel: 6.2 cm (2.5 type) TFT drive
Total number of dots: 115 200 (480 × 240) dots

[Power, general]

Power: Rechargeable battery pack NP-BG1, 3.6 V
AC-LS5K AC Adaptor (not supplied), 4.2 V
Power consumption (during shooting with the LCD screen on):
1.0 W
Operating temperature: 0 to 40 °C (32 to 104 °F)
Storage temperature: –20 to +60 °C (–4 to +140 °F)
Dimensions:
88.9 × 57.1 × 22.9 mm (3 1/2 × 2 1/4 × 29/32 inches) (W/H/D, excluding protrusions)
Mass:
Approx. 147 g (5.2 oz) (including NP-BG1 battery pack and wrist strap, Etc.)
Microphone: Monaural
Speaker: Monaural
Exif Print: Compatible
PRINT Image Matching III: Compatible
PictBridge: Compatible

BC-CSG/BC-CSGB/BC-CSGC battery charger

Power requirements: AC 100 to 240 V, 50/60 Hz, 2 W (BC-CSG/BC-CSGC) 2.6 W (BC-CSGB)
Output voltage: DC 4.2 V, 0.25 A
Operating temperature: 0 to 40 °C (32 to 104 °F)
Storage temperature: –20 to +60 °C (–4 to +140 °F)
Dimensions: Approx. 62 × 24 × 91 mm (2 1/2 × 31/32 × 3 5/8 inches) (W/H/D)
Mass: Approx. 75 g (2.7 oz)

Rechargeable battery pack NP-BG1

Used battery: Lithium-ion battery
Maximum voltage: DC 4.2 V
Nominal voltage: DC 3.6 V
Capacity: 3.4 Wh (960 mAh)

Design and specifications are subject to change without notice.

CAUTION
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer.

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B+ voltage to see it is at the values specified.
6. FLEXIBLE Circuit Board Repairing
   - Keep the temperature of the soldering iron around 270°C during repairing.
   - Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
   - Be careful not to apply force on the conductor when soldering or unsoldering.

Unleaded solder

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350°C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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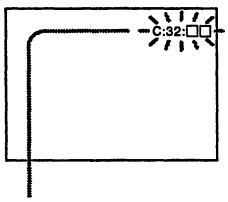
1. SERVICE NOTE

1-1. DESCRIPTION ON SELF-DIAGNOSIS DISPLAY

Self-diagnosis display

The camera has a self-diagnosis display. This function displays the camera condition with five-digits (a combination of a letter and figures) on the LCD screen. If this occurs check the following code chart. The five-digits display informs you of the camera's current condition. The last two digits (indicated by □□) will differ depending on the state of the camera.



Self-diagnosis display

- C: □□: □□
  You can reverse the camera malfunction yourself. (However, contact your Sony dealer or local authorized Sony service facility when you cannot recover from the camera malfunction.)
- E: □□: □□
  Contact your Sony dealer or local authorized Sony service facility.

Display Code	Countermeasure	Cause	Caution Display During Error
C:32:□□	Turn the power off and on again.	Trouble with hardware.	SYSTEM ERROR
C:13:□□	Format the "Memory Stick" or internal memory.	"Memory Stick" or internal memory is unformatted.	FORMAT ERROR
	Insert a new "Memory Stick".	"Memory Stick" is broken.	MEMORY STICK ERROR
	Turn the power off and on again.	Trouble with internal memory.	INTERNAL MEMORY ERROR
E:61:□□	Checking of lens drive circuit.	When failed in the focus and zoom initialization.	—
E:91:□□	Checking of flash unit or replacement of flash unit. (Note)	Abnormality when flash is being charged.	

Note: After repair, be sure to perform "1-2. PROCESS AFTER FIXING FLASH ERROR".

1-2. PROCESS AFTER FIXING FLASH ERROR

When "FLASH error" (Self-diagnosis Code E : 91 : **) occurs, to prevent any abnormal situation caused by high voltage, setting of the flash is changed automatically to disabling charge and flash setting.
After fixing, this setting needs to be deactivated. Flash error code can be initialized by the operations on the Setup screen.

Method for Initializing the Flash Error Code

Initialize

Initializes the setting to the default setting.
Images stored in the internal memory are retained.

① Select [OK] with ▲ on the control button, then press ●.
The message "Initialize all settings Ready?" appears.

② Select [OK] with ▲, then press ●.
The settings are reset to the default setting.

To cancel the resetting

Select [Cancel] in step ① or ②, then press ●.

• Make sure that the power is not disconnected during resetting.

1-3. METHOD FOR COPYING OR ERASING THE DATA IN INTERNAL MEMORY

The data can be copied/erased by the operations on the Setup screen. (When erasing the data, execute formatting the internal memory.)

Note 1: When replacing the SY-176 board, erase the data in internal memory of the board before replacement.
Note 2: When replacing the SY-176 board, execute formatting and initialize the internal memory after replacement.

Method for Copying the Data in Internal Memory

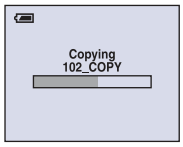
Copy

Copies all images in the internal memory to a “Memory Stick Duo”.

① Insert a “Memory Stick Duo” having 64 MB or larger capacity.

② Select [OK] with ▲ on the control button, then press ●.
The message “All data in internal memory will be copied Ready?” appears.

③ Select [OK] with ▲, then press ●.
Copying starts.



To cancel the copying

Select [Cancel] in step ② or ③, then press ●.

- Use a fully charged battery pack. If you attempt to copy image files using a battery pack with little remaining charge, the battery pack may run out, causing copying to fail or possibly corrupting the data.
- You cannot copy individual images.
- The original images in the internal memory are retained even after copying. To delete the contents of the internal memory, remove the “Memory Stick Duo” after copying, then execute the [Format] command in (Internal Memory Tool) (page 54).
- When you copy the data in the internal Memory to the “Memory Stick Duo”, all the data will be copied. You cannot choose a specific folder on the “Memory Stick Duo” as the destination for the data to be copied.
- Even if you copy data, a (Print order) mark is not copied.

Method for Formatting the Internal Memory

This item appears only when a “Memory Stick Duo” is inserted in the camera.

Format

Formats the “Memory Stick Duo”. A commercially available “Memory Stick Duo” is already formatted, and can be used immediately.

- Note that formatting irrevocably erases all data on a “Memory Stick Duo”, including even protected images.

① Select [OK] with ▲ on the control button, then press ●.
The message “All data in Memory Stick will be erased Ready?” appears.

② Select [OK] with ▲, then press ●.
The format is complete.

To cancel the formatting

Select [Cancel] in step ① or ②, then press ●.

1-4. PRECAUTION ON REPLACING THE SY-176 BOARD

VIDEO OUT Default Data Check

When you replace to the repairing board, the written data of repairing board also might be changed to original setting because of broadcast system (NTSC/PAL).
When the data has changed because of board replacing etc., check the default data of VIDEO OUT if destination code is right. If not, rewrite to the right value.

VIDEO OUT Default Data

Page	Address	Data	
		NTSC	PAL
4F	8D	00	01

Writing Method:
1) Select page: 00, address: 01, and set data: 01.
2) Select page: 4F, address: 8D, and set data: 00 (NTSC) or data: 01 (PAL).
3) Select page: 40, address: 38, and set data: 00.
4) Click Save on the SEUS screen.
5) Select page: 80, address: 34, and check that the data is "00".
6) Select page: 80, address: 30, and check that the data is "00".
7) Select page: 00, address: 01, and set data: 00.

Initial Language Data Check

If the SY-176 board was replaced, initial language setting may be changed. Accordingly, change the following data so as to set same initial language as that of the set distributing in each region.

Initial language: Language displayed at the next starting if the setting of Setup menu was reset.
It is different from the language setting selectable with the menu.

Initial Language Data

Page	Address	Data	Language	GP2	GP3	GP4
4F	8C	00	English	●	●	●
		04	Spanish	●	●	●
		06	Portuguese		●	●
		08	Simplified Chinese	●		●
		0B	Russian		●	
		0D	Korean			●

Note: GP2 is fixed to English.
GP3 is either English, Spanish, or Russian.
GP4 is either English, Spanish, Simplified Chinese, or Korean.

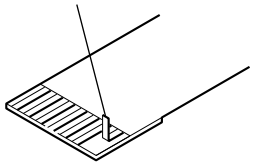
Writing Method:
1) Select page: 00, address: 01 and set data: 01.
2) Select page: 4F, address: 8C, and set the Initial Language Data.
3) Select page: 40, address: 38, and set data: 00.
4) Click Save on the SEUS screen.
5) Select page: 80, address: 34, and check that the data is "00".
6) Select page: 80, address: 30, and check that the data is "00".
7) Select page: 00, address: 01, and set data: 00.
8) Turn off the camera.
9) Turn on the camera. Execute "Initialize" of Setup screen.
10) Check the language displayed when the camera starts.

2. DISASSEMBLY

NOTE FOR REPAIR

- Make sure that the flat cable and flexible board are not cracked of bent at the terminal. Do not insert the cable insufficiently nor crookedly.
- When remove a connector, dont' pull at wire of connector. It is possible that a wire is snapped.
- When installing a connector, dont' press down at wire of connector. It is possible that a wire is snapped.
- Do not apply excessive load to the gilded flexible board.

Cut and remove the part of gilt which comes off at the point. (Be careful or some pieces of gilt may be left inside)

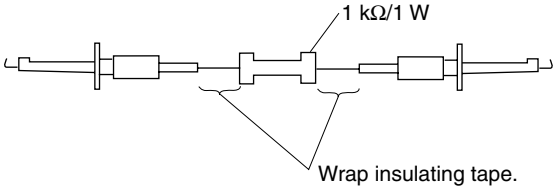


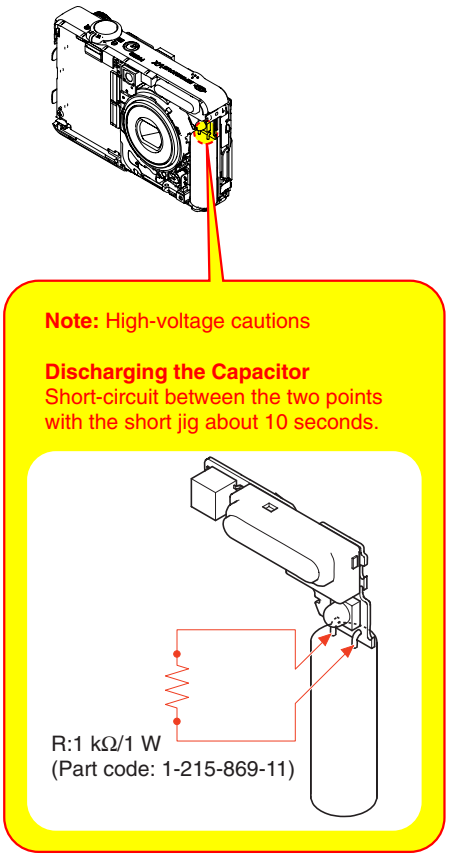
DISCHARGING OF THE ST-133 BOARD'S CHARGING CAPACITOR (C901)

The charging capacitor (C901) of the ST-133 board is charged up to the maximum 300 V potential.
There is a danger of electric shock by this high voltage when the capacitor is handled by hand. The electric shock is caused by the charged voltage which is kept without discharging when the main power of the unit is simply turned off. Therefore, the remaining voltage must be discharged as described below.

Preparing the Short Jig

To preparing the short jig, a small clip is attached to each end of a resistor of 1 kΩ /1 W (1-215-869-11).
Wrap insulating tape fully around the leads of the resistor to prevent electrical shock.

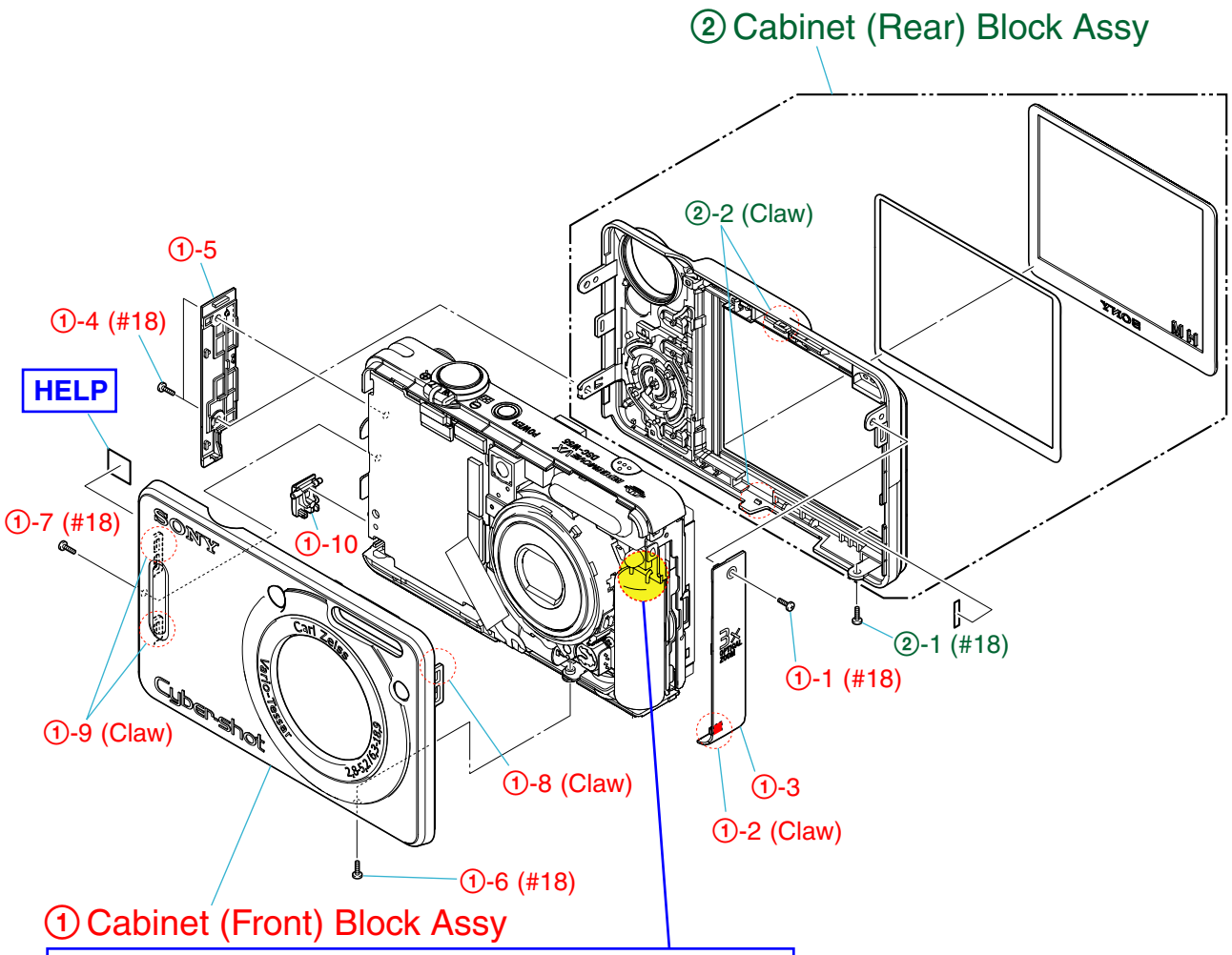



Note: High-voltage cautions
Discharging the Capacitor
Short-circuit between the two points with the short jig about 10 seconds.
R:1 kΩ/1 W
(Part code: 1-215-869-11)

2-1. DISASSEMBLY

EXPLODED VIEW HARDWARE LIST

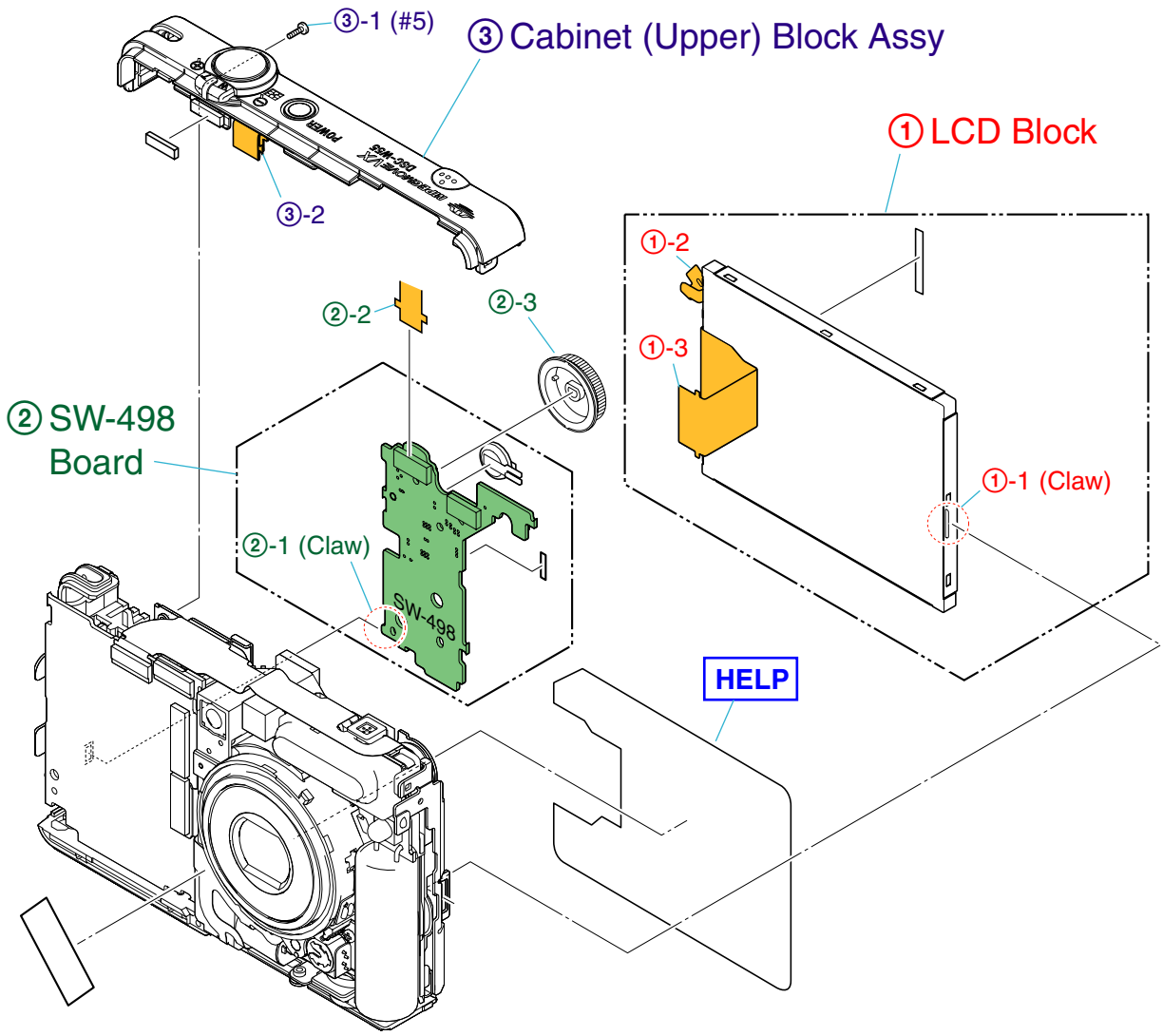
2-1-1. CABINET BLOCK



Refer to page 2-1
" Discharging of the ST-133 board's charging capacitor (C901) ",
when discharging the capacitor.

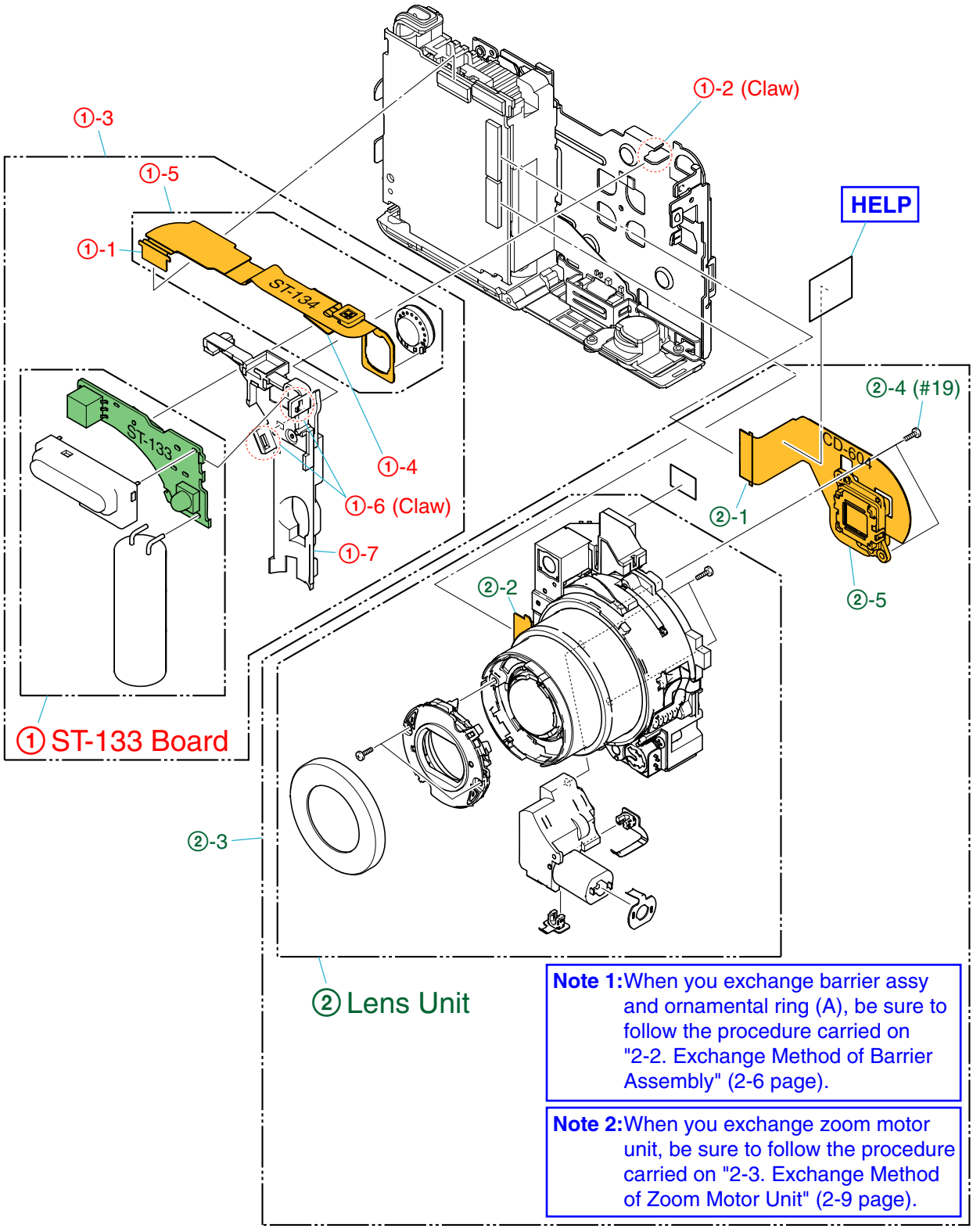
2-1-2. LCD BLOCK

EXPLODED VIEW HARDWARE LIST



2-1-3. LENS BLOCK

EXPLODED VIEW HARDWARE LIST

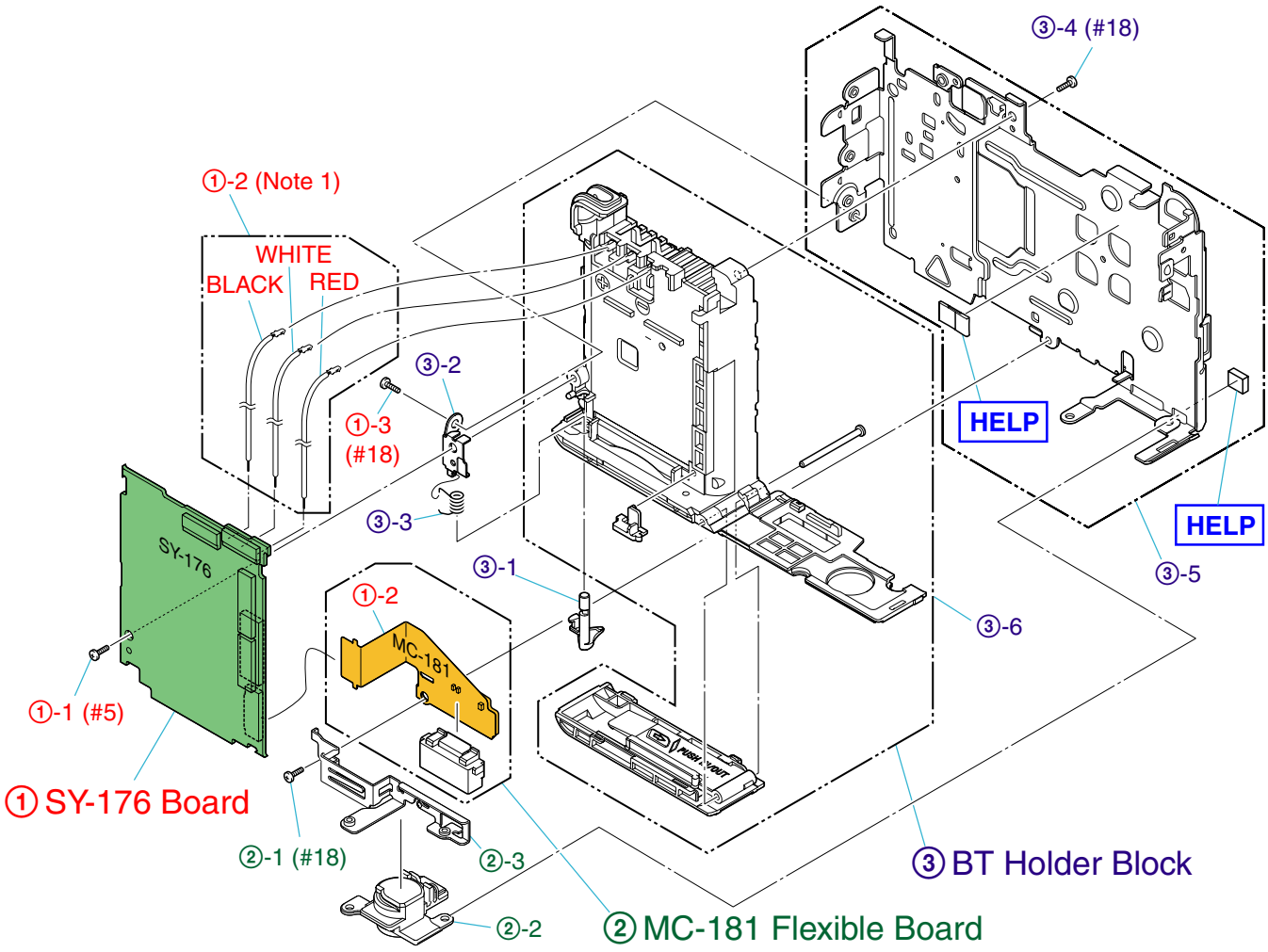


Note 1: When you exchange barrier assy and ornamental ring (A), be sure to follow the procedure carried on "2-2. Exchange Method of Barrier Assembly" (2-6 page).

Note 2: When you exchange zoom motor unit, be sure to follow the procedure carried on "2-3. Exchange Method of Zoom Motor Unit" (2-9 page).

2-1-4. BT HOLDER BLOCK

EXPLODED VIEW HARDWARE LIST



Note 1 : Precaution ①-2 when exchanging BT terminal board (service)

- Refer to fig.2-1-1, when install BT terminal board (service) in BT holder block.

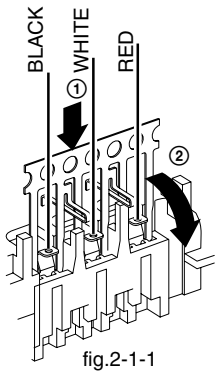
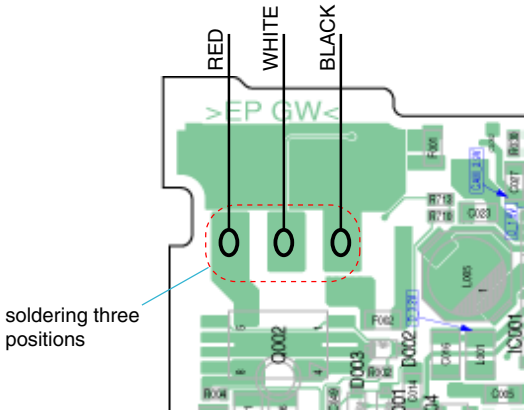


fig.2-1-1

①. Install to BT holder block.
②. Break the notch.

- Fig.2-1-2 is soldering position about BT terminal board (service).



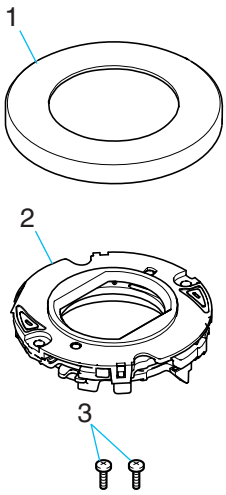
SY-176 BOARD (SIDE A)

fig2-1-2

2-2. EXCHANGE METHOD OF BARRIER ASSY

Service parts

	Part Number	Part Name	Quantity
1	2-673-650-01	Ring (A), Ornamental	1
2	2-673-652-01	Barrier Assy	1
3	2-673-651-01	Tapping screw (B1.2×4)	2



Tools used

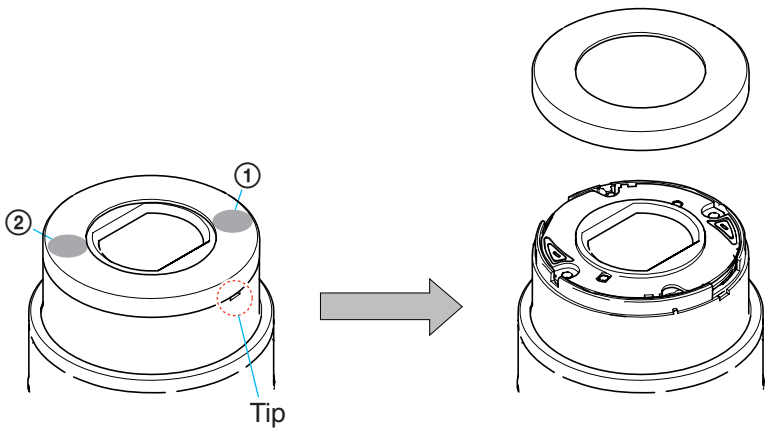
Torque driver
Soldering iron
Weight about 60g
Adhesive tape (ornamental ring fixed) (2-677-885-01)

2-2-1. PEEL OFF OLD ORNAMENTAL RING A

The Ornamental Ring A has adhered to the Barrier Assy strongly and accordingly, use a soldering iron to weaken the adhesive force.
Heat four circled portions with the soldering iron.
Heating temperature is about 300ºC.
Beware of a burn since the entire Ornamental Ring becomes hot.
* As the adhesive force of Ornamental Ring A is considerably large, the forced peeling will damage the group-1 frame.

Insert the tip of tweezers, etc. into a notch of the group-1 frame and prize the ring.
* Take extreme care so as not to damage the coated surface of the group-1 frame.
In case of difficult peeling, heat the ring again with the soldering iron.
If this re-heating failed, it may be advisable that the ring be peeled while heating the portions ① → ② in the under figure one by one sequentially.

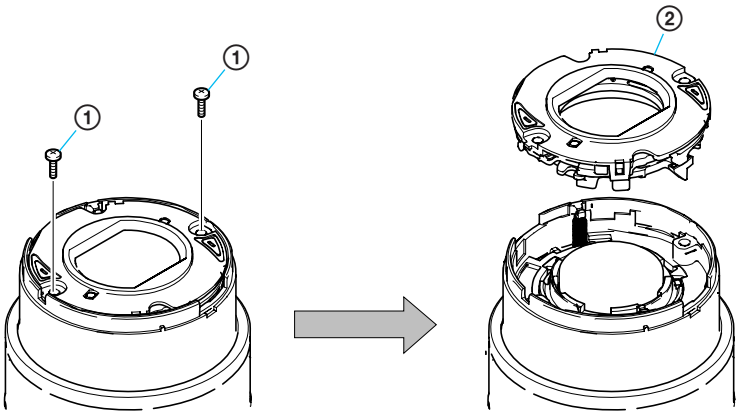
* Discard the removed Ornamental Ring A.



2-2-2. REMOVE OLD BARRIER ASSY

① Remove two screws.
* Discard the removed screws.

② Remove the Barrier Assy.
* Discard the removed Barrier Assy.

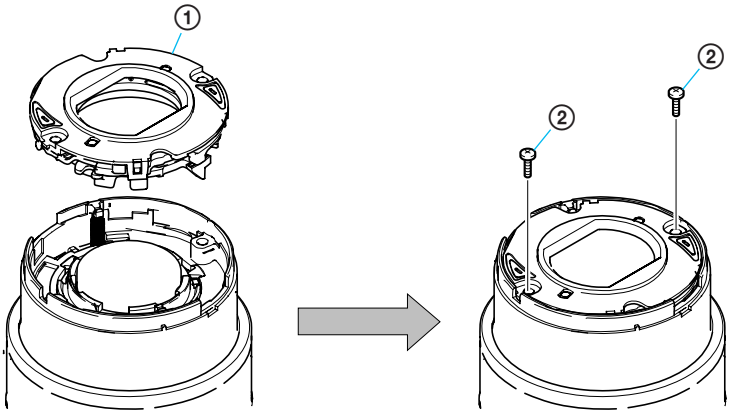


* After removing the Barrier Assy, if the “G1 Dust-Proof Ring” was removed, it must be returned to the home position. In returning the ring, adjust the location of a projection to the lens direction. This is an important part to prevent the dust and light from coming in.
* After removing the Barrier Assy, take extreme care not to drop dust or foreign substances in the lens barrel.

2-2-3. INSTALL NEW BARRIER ASSY

① Install new Barrier Assy.

② Tighten two screws.
* Tightening torque = 0.5 kgf

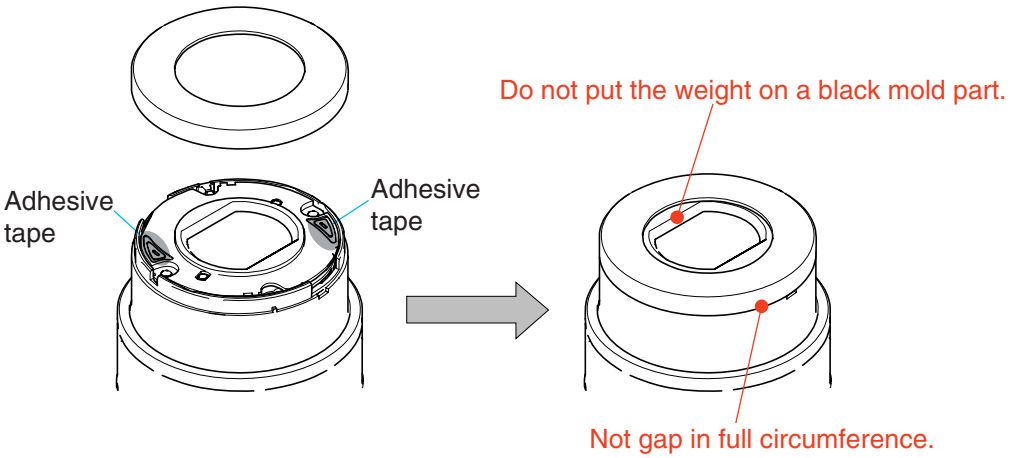


2-2-4. ADHERE THE ORNAMENTAL RING A

Apply an adhesive tape to two recesses on the top surface of the Barrier Assy.

Meeting a “notch” of the Ornamental Ring A with a “projection” of the group-1 frame, push the Ornamental Ring A into the group-1 frame.
* The projection of the spring for preventing static electricity must be tilted.

Put the 60g weight on the Ornamental Ring A so that the Ornamental Ring A does not float up until the adhesive hardens.
Note: Be careful not to give a shock.
* After the weight was put, no gap must be present in full circumference between Ornamental Ring A and group-1 frame.
  A gap, if present, causes the crackle sound NG.
* The weight must push in the Ornamental Ring A only.
  If the weight is put on the mold part of the Barrier Assy, the Ornamental Ring A will float up.

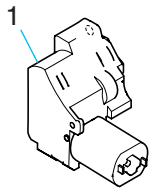


Completion after 30 minutes.

2-3. EXCHANGE METHOD OF ZOOM MOTOR UNIT

Service parts

	Part Number	Part Name	Quantity
1	2-673-648-01	Zoom Motor Unit	1
2	2-673-649-01	BT2 P1.4×3 B3C	2



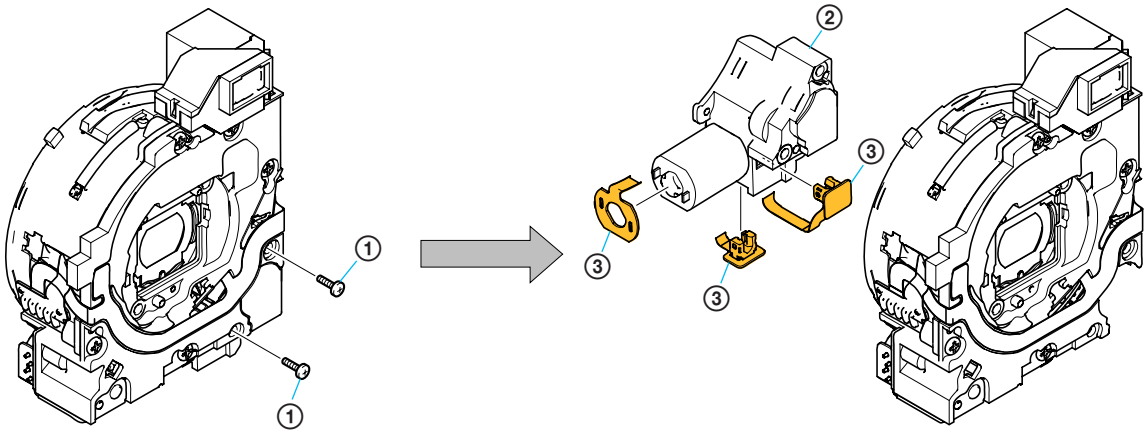
Tools used
Torque driver

2-3-1. REMOVE OLD ZOOM MOTOR UNIT

① Remove two screws.
* Discard the removed screws.

② Remove the Zoom Motor Unit.

③ Remove the Lens Flexible Board.
* Discard the removed Zoom Motor Unit.

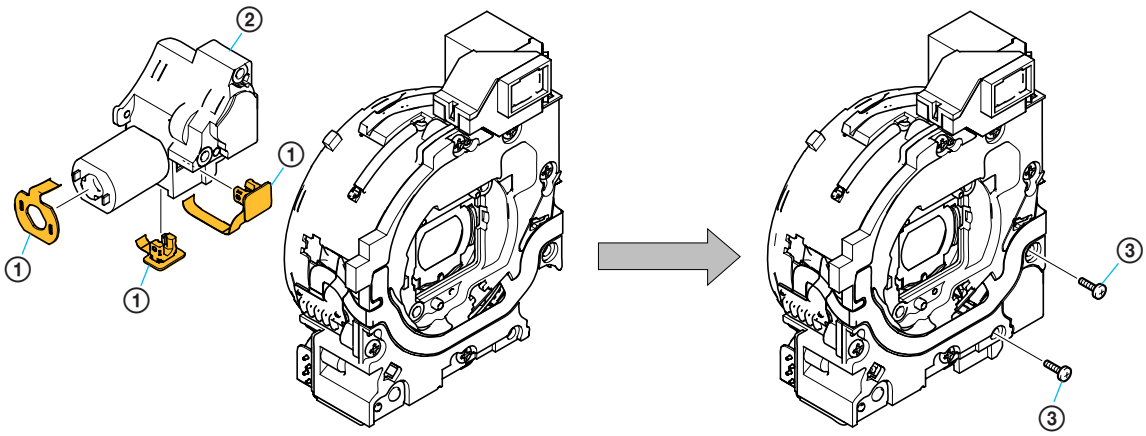


2-3-2. INSTALL NEW ZOOM MOTOR UNIT

① Install the Lens Flexible Board in new Zoom Motor Unit.

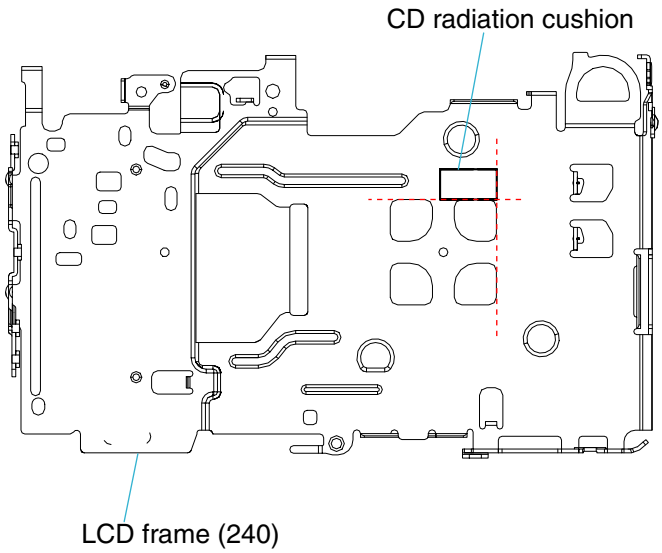
② Install new Zoom Motor Unit in the Lens Block.

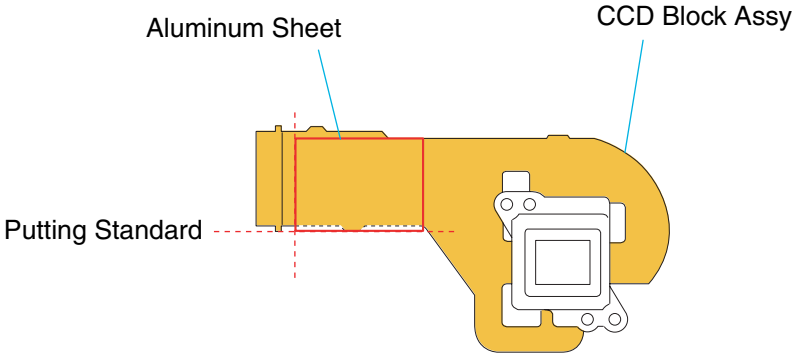
③ Tighten two screws.
* Tightening torque = 0.7 kgf

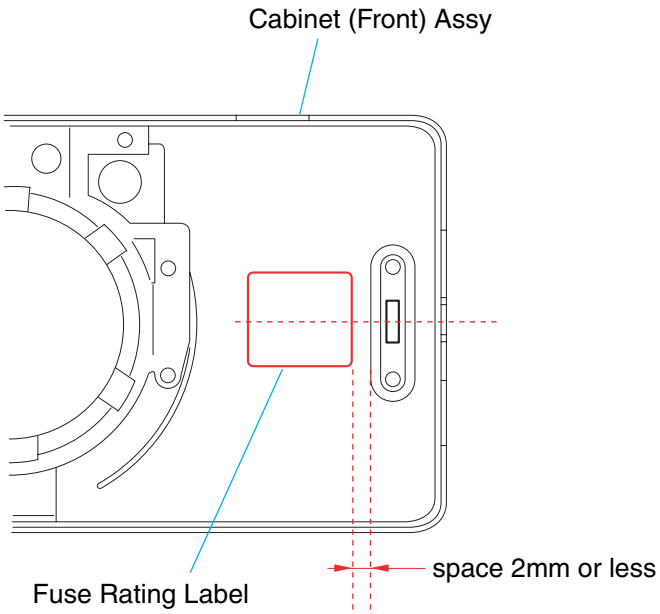


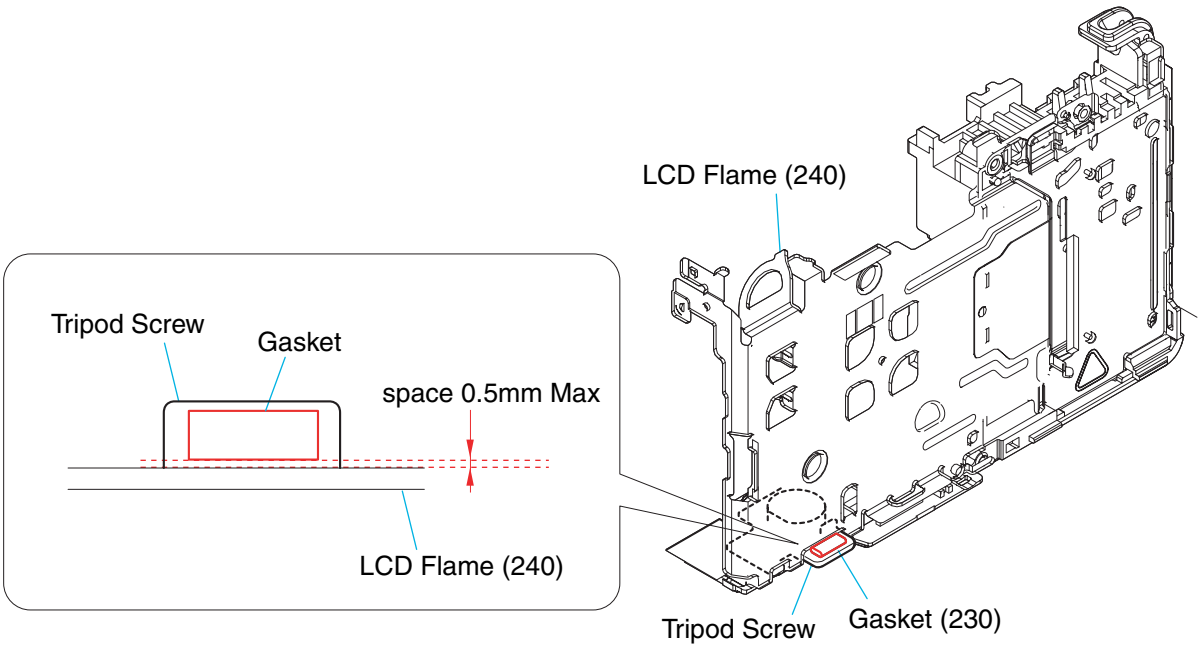
HELP

Sheet attachment positions and procedures of processing the flexible boards/harnesses are shown.

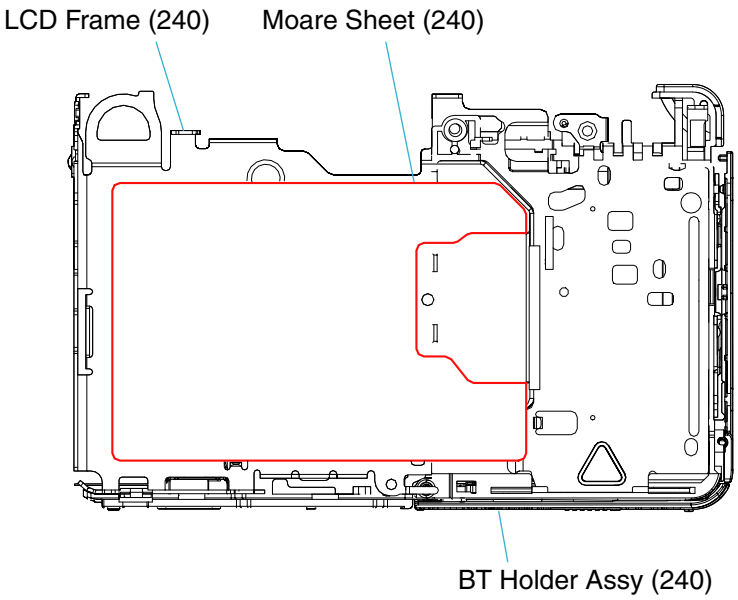





Cabinet (Front) Assy
space 2mm or less
Fuse Rating Label


LCD Flame (240)
Tripod Screw
Gasket
space 0.5mm Max
LCD Flame (240)
Tripod Screw
Gasket (230)

Note: Affix so that align the shape of LCD frame (240) to the moare sheet (240).
Affix the moare sheet (240) and the LCD frame (240) firmly so that moare sheet (240) should never float.



3. BLOCK DIAGRAMS

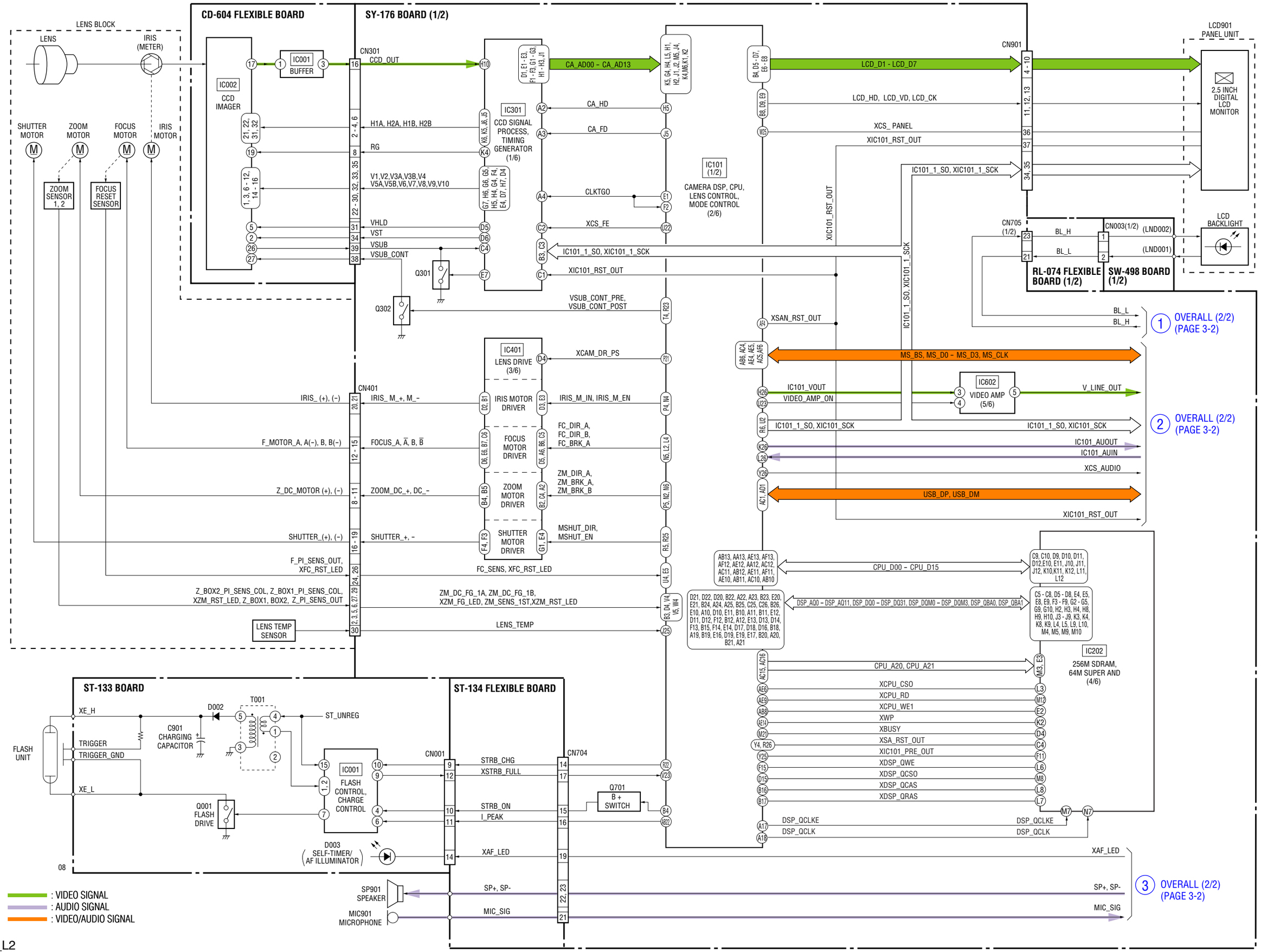
Link

- OVERALL BLOCK DIAGRAM (1/2)
- POWER BLOCK DIAGRAM
- OVERALL BLOCK DIAGRAM (2/2)

3. BLOCK DIAGRAMS

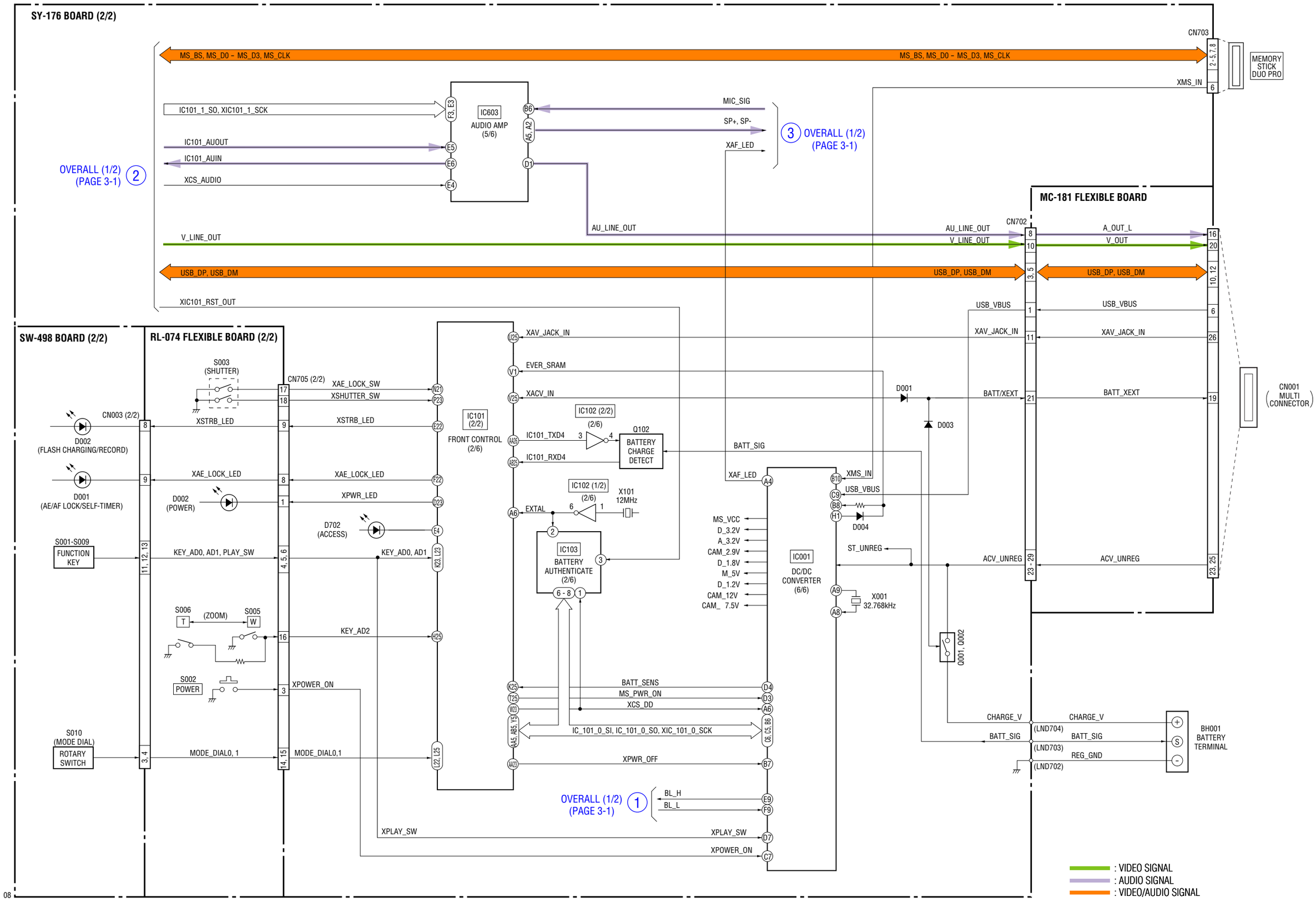
3-1. OVERALL BLOCK DIAGRAM (1/2)

( ) : Number in parenthesis ( ) indicates the division number of schematic diagram where the component is located.



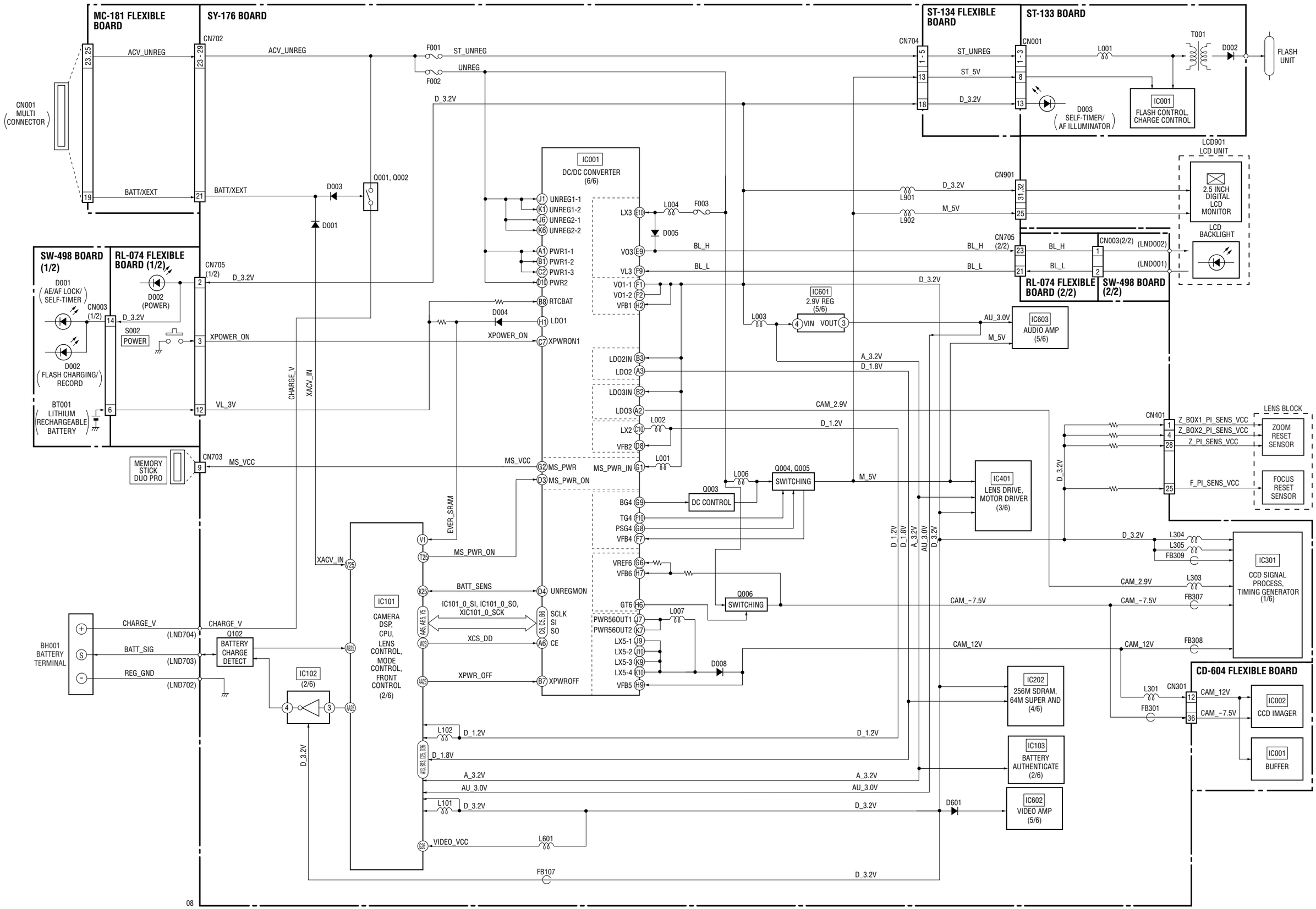
3-2. OVERALL BLOCK DIAGRAM (2/2)

( ) : Number in parenthesis ( ) indicates the division number of schematic diagram where the component is located.

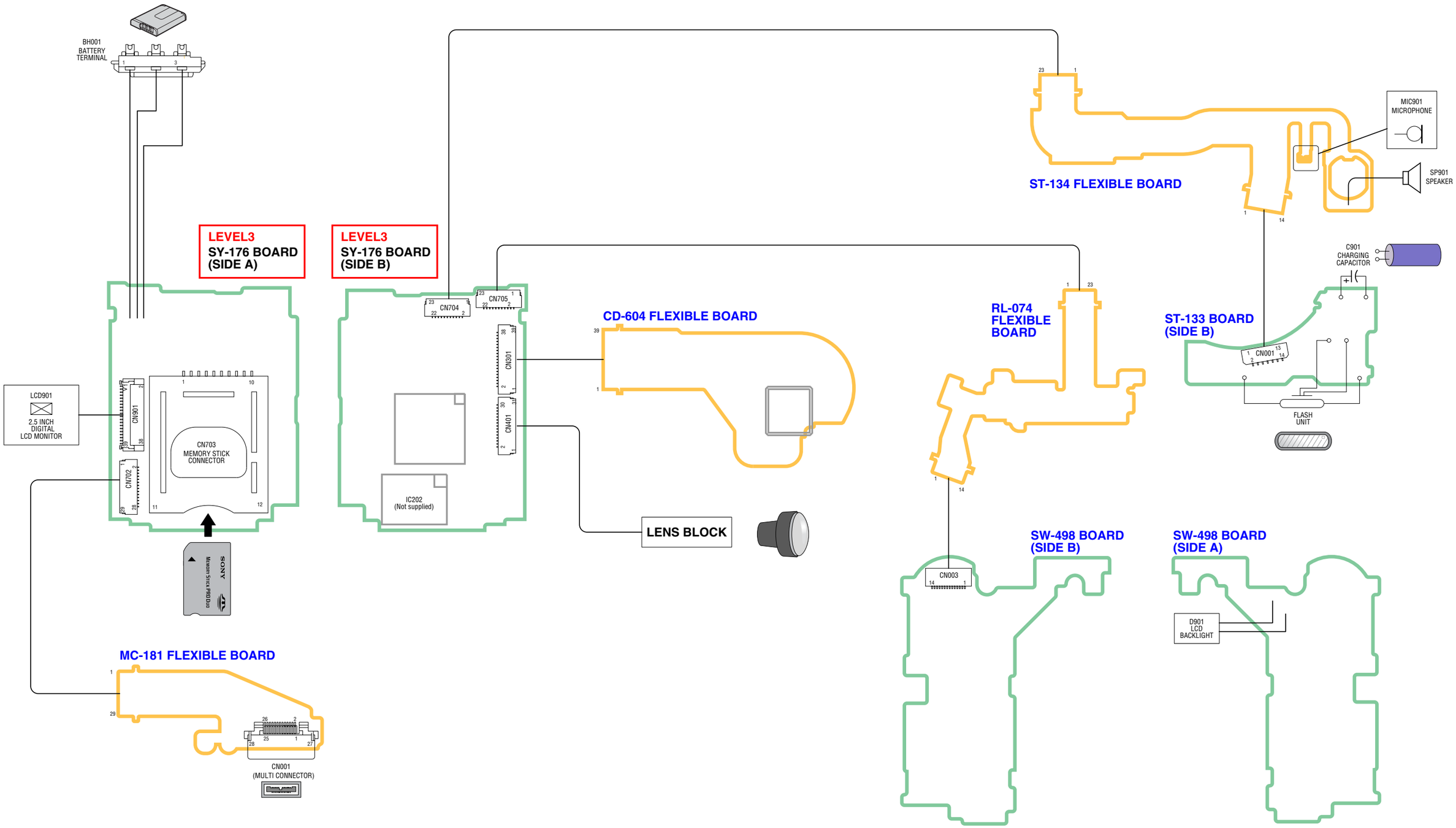


3-3. POWER BLOCK DIAGRAM

( ) : Number in parenthesis ( ) indicates the division number of schematic diagram where the component is located.



4-1. FRAME SCHEMATIC DIAGRAM



4-2. SCHEMATIC DIAGRAMS

Link

- CD-604 FLEXIBLE BOARD (CCD IMAGER)
- SW-498 BOARD (CONTROL SWITCH)
- ST-133 BOARD (FLASH DRIVE)
- RL-074 FLEXIBLE BOARD (CONTROL SWITCH)
- ST-134 FLEXIBLE BOARD
- MC-181 FLEXIBLE BOARD (MULTI CONNECTOR)
- COMMON NOTE FOR SCHEMATIC DIAGRAMS

4-2. SCHEMATIC DIAGRAMS

THIS NOTE IS COMMON FOR SCHEMATIC DIAGRAMS
(In addition to this, the necessary note is printed in each block)

(For schematic diagrams)

- All capacitors are in μF unless otherwise noted. pF : μμF. 50 V or less are not indicated except for electrolytics and tantalums.
- Chip resistors are 1/10 W unless otherwise noted. kΩ=1000 Ω, MΩ=1000 kΩ.
- Caution when replacing chip parts.
  New parts must be attached after removal of chip.
  Be careful not to heat the minus side of tantalum capacitor, Because it is damaged by the heat.
- Some chip part will be indicated as follows.

  Example C541 22U TA A — Kinds of capacitor / Case size
  L452 10UH 2520 — External dimensions (mm)
- Constants of resistors, capacitors, ICs and etc with XX indicate that they are not used.
  In such cases, the unused circuits may be indicated.
- Parts with ★ differ according to the model/destination.
  Refer to the mount table for each function.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Signal name
  XEDIT → $\overline{\text{EDIT}}$ PB/XREC → PB/$\overline{\text{REC}}$
- : non flammable resistor
- : fusible resistor
- : panel designation
- : B+ Line
- : B– Line
- : IN/OUT direction of (+,–) B LINE.
- : adjustment for repair.
- : not use circuit

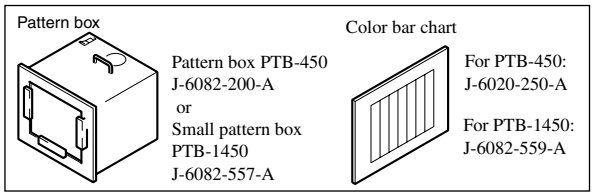
(Measuring conditions voltage and waveform)

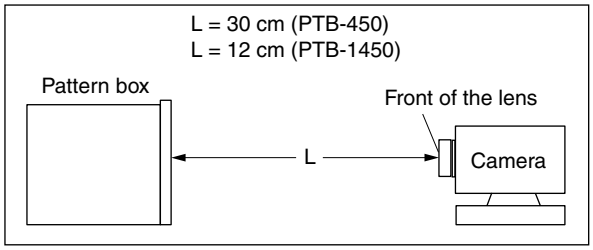
- Voltages and waveforms are measured between the measurement points and ground when camera shoots color bar chart of pattern box. They are reference values and reference waveforms.
  (VOM of DC 10 MΩ input impedance is used)
- Voltage values change depending upon input impedance of VOM used.)

Precautions for Replacement of Imager

- If the imager has been replaced, carry out all the adjustments for the camera section.
- As the imager may be damaged by static electricity from its structure, handle it carefully like for the MOS IC.
  In addition, ensure that the receiver is not covered with dusts nor exposed to strong light.

1. Connection





2. Adjust the distance so that the output waveform of Fig. a and the Fig. b can be obtain.

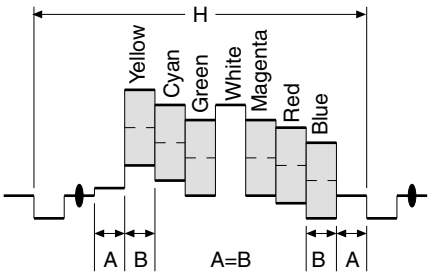


Fig. a (Video output terminal output waveform)

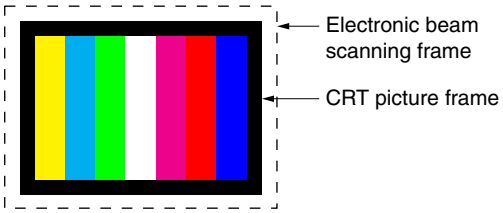


Fig.b (Picture on monitor TV)

When indicating parts by reference number, please include the board name.

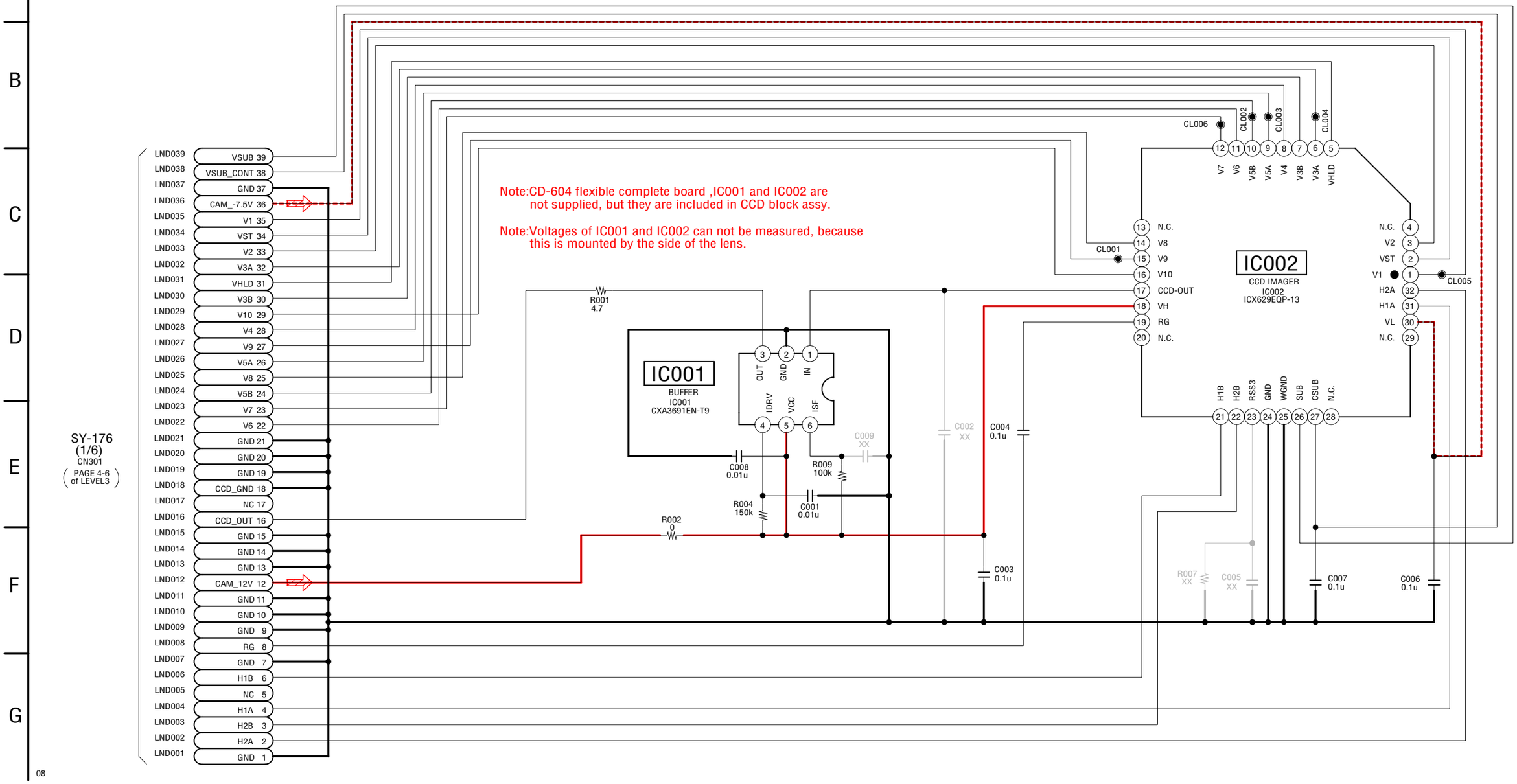
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifie.

CD-604 FLEXIBLE BOARD

CCD IMAGER

XX MARK:NO MOUNT



Schematic diagrams of the SY-176 board are not shown.
Pages from 4-6 to 4-11 are not shown.

• Refer to page 4-3 for mark ⚠.

⚠ ST-133 BOARD

FLASH DRIVE

XX MARK:NO MOUNT

NO MARK:REC/PB MODE

ST-134 FLEXIBLE BOARD

Note:MIC901 is not supplied,
but this is included in
ST-134 flexible complete board.

SY-176 (2/6)
CN704
(PAGE 4-7 of LEVEL3)

LND001 ST_UNREG 1
LND002 ST_UNREG 2
LND003 ST_UNREG 3
LND004 ST_UNREG 4
LND005 ST_UNREG 5
LND006 REG_GND 6
LND007 REG_GND 7
LND008 REG_GND 8
LND009 REG_GND 9
LND010 REG_GND 10
LND011 REG_GND 11
LND012 REG_GND 12
LND013 ST_5V 13
LND014 STB_CHARGE 14
LND015 STRB_ON 15
LND016 I_PEAK 16
LND017 XSTRB_FULL 17
LND018 D_3.2V 18
LND019 XAF_LED 19
LND020 REG_GND 20
LND021 MIC_SIG 21
LND022 SP- 22
LND023 SP+ 23

1 ST_UNREG LND031
2 ST_UNREG LND032
3 ST_UNREG LND033
4 REG_GND LND034
5 REG_GND LND035
6 REG_GND LND036
7 REG_GND LND037
8 ST_5V LND038
9 STB_CHARGE LND039
10 STRB_ON LND040
11 I_PEAK LND041
12 XSTRB_FULL LND042
13 D_3.2V LND043
14 XAF_LED LND044

LND045
1 REG_GND
2 MIC_SIG
LND046

LND047
1 SP-
2 SP+
LND048

MIC
MIC901
MICROPHONE

SP901
SPEAKER

CN001 14P
ST_UNREG 1
ST_UNREG 2
ST_UNREG 3
REG_GND 4
REG_GND 5
REG_GND 6
REG_GND 7
ST_5V 8
STRB_CHARGE 9
STRB_ON 10
I_PEAK 11
XSTRB_FULL 12
D_3.2V 13
XAF_LED 14

L001 2.2uH
C002 4.7u 10V
C003 4.7u 10V
C008 220p
R006 10k
R008 10k
D004 RB520S-40TE61
T001
D002 MA2YF8000LS0
C901 97u 315V (CHARGING CAPACITOR)
R004 1M
LND003 XE_H
LND001 TRIGGER
LND002 TRIGGER_GND
LND004 XE_L
FLASH UNIT
LND006 DISCHARGE
LND005 DISCHARGE
C007 0.047u 250V
Q001 TIG022TS-S-TL-E FLASH DRIVE
R003 33
R005 1M
R007 XX

IC001
FLASH CONTROL
CHARGE CONTROL
IC001
TPS65552RGTR

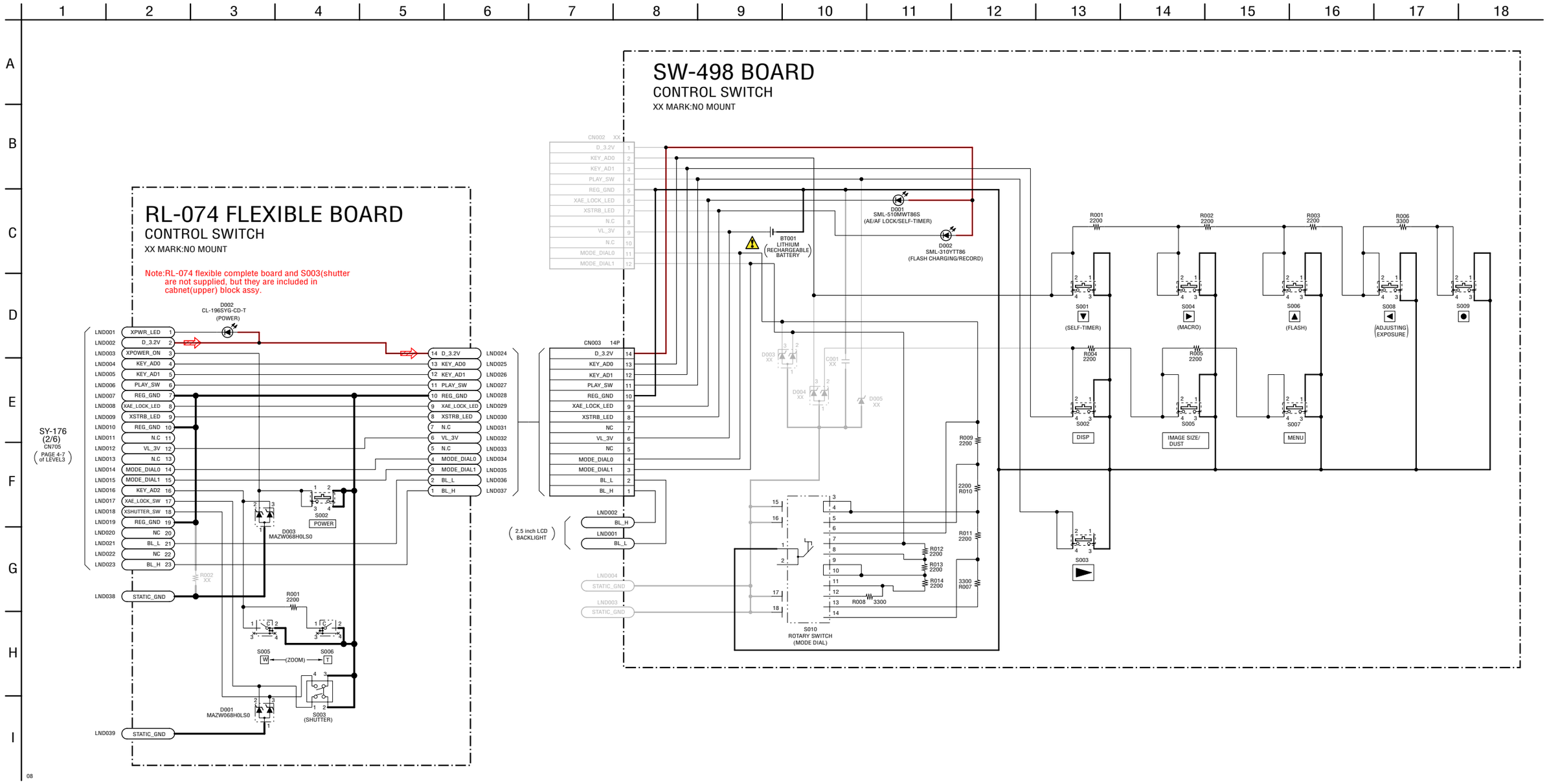
17 HGND
16 N.C
15 VBATT
14 N.C
13 N.C
1 SW
2 SW
3 VCC
4 F_ON
12 PGND
11 PGND
10 CHG
9 XFULL
5 N.C
6 I_PEAK
7 G_IGBT
8 N.C

C001 XX
C004 u
C005 0.1u

D003
DOR5352
SELF-TIMER/
AF ILLUMINATOR

08

• Refer to page 4-3 for mark ⚠.

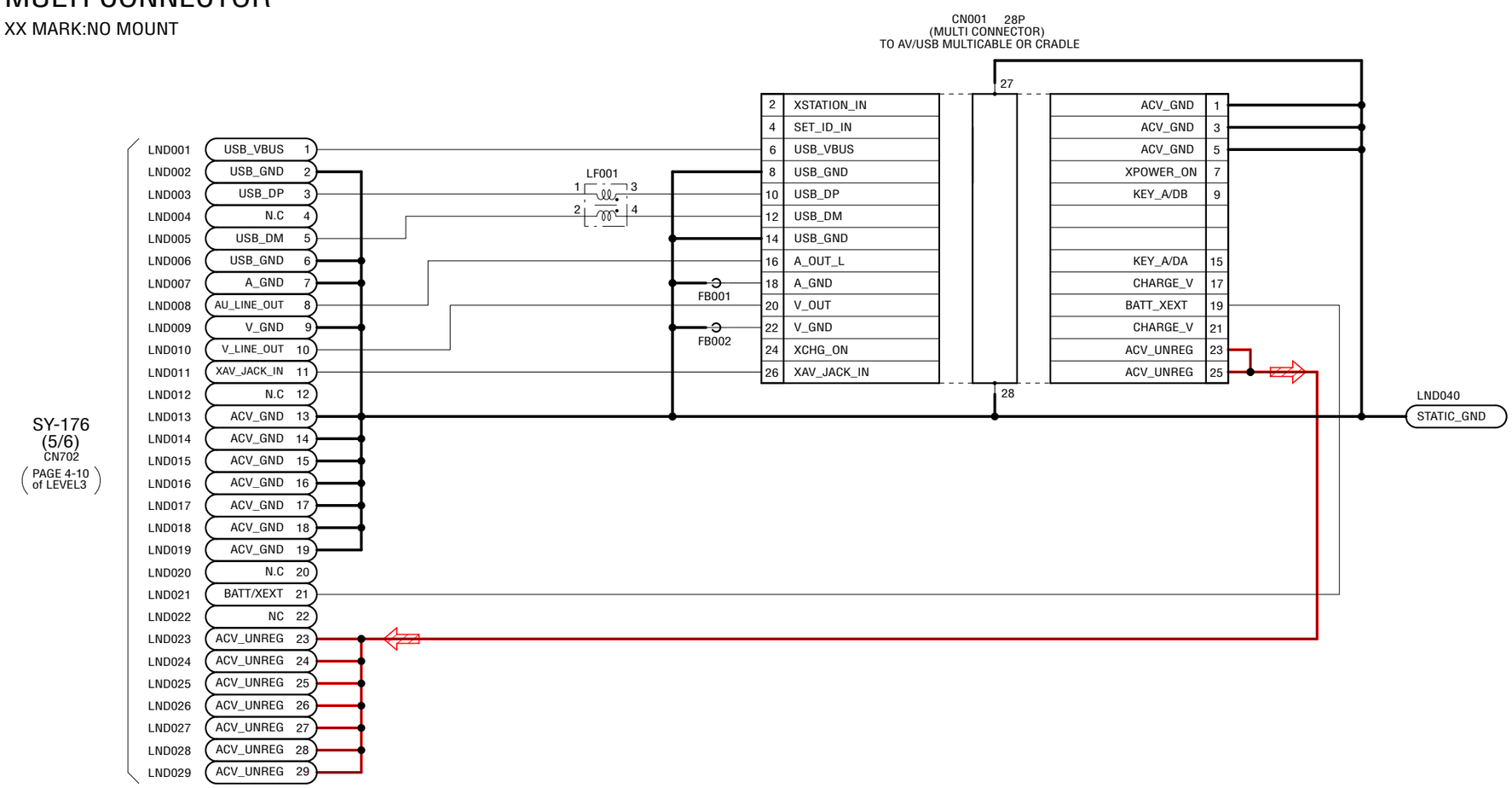


MC-181 FLEXIBLE BOARD

MULTI CONNECTOR

XX MARK:NO MOUNT

Note: CN001 (multi connector) is not supplied,
but this is included in MC-181 flexible complete board.



4-3. PRINTED WIRING BOARDS

Link

- CD-604 FLEXIBLE BOARD
- SW-498 BOARD
- ST-133 BOARD
- RL-074 FLEXIBLE BOARD
- ST-134 FLEXIBLE BOARD
- MC-181 FLEXIBLE BOARD
- COMMON NOTE FOR PRINTED WIRING BOARDS
- MOUNTED PARTS LOCATION

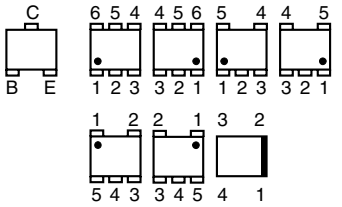
4-3. PRINTED WIRING BOARDS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS

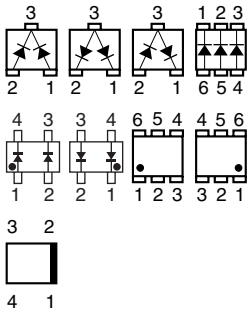
- : Uses unleaded solder.
- : Circuit board
  : Flexible board
  Pattern from the side which enables seeing.
  : pattern of the rear side
  (The other layers' patterns are not indicated)
- Through hole is omitted.
- There are a few cases that the part printed on diagram isn't mounted in this model.
- : panel designation

- Chip parts.

Transistor



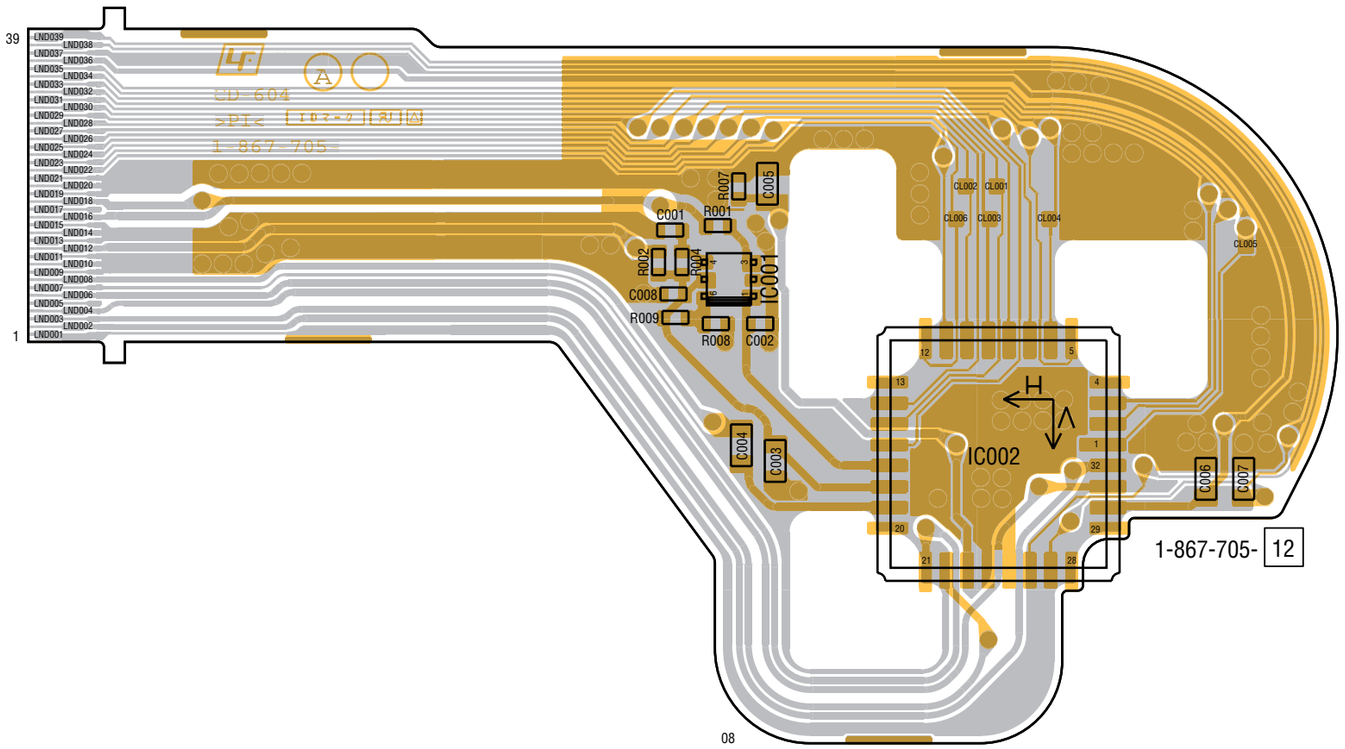
Diode



CD-604 (2 layers)

: Uses unleaded solder.

CD-604 FLEXIBLE BOARD



Note: CD-604 flexible complete board, IC001 and IC002 are not supplied, but they are included in CCD block assy.

Printed wiring boards of the SY-176 board are not shown.
Page 4-18 is not shown.

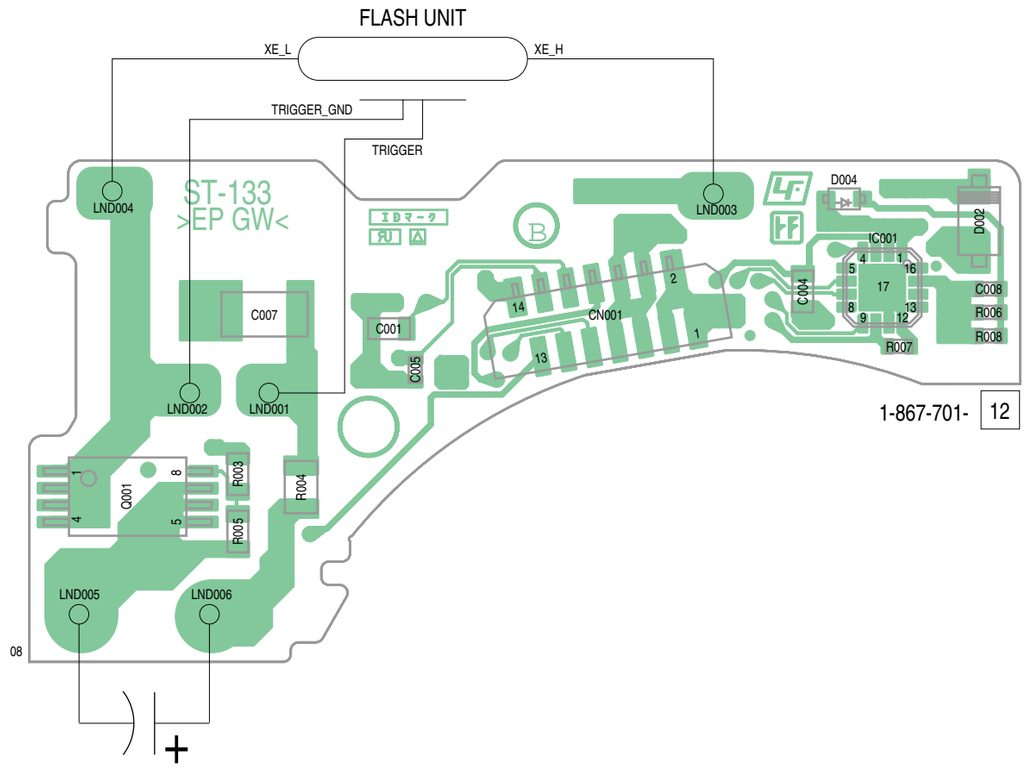
ST-133 (4 layers), ST-134 (2 layers)

: Uses unleaded solder.

ST-133 BOARD (SIDE A)

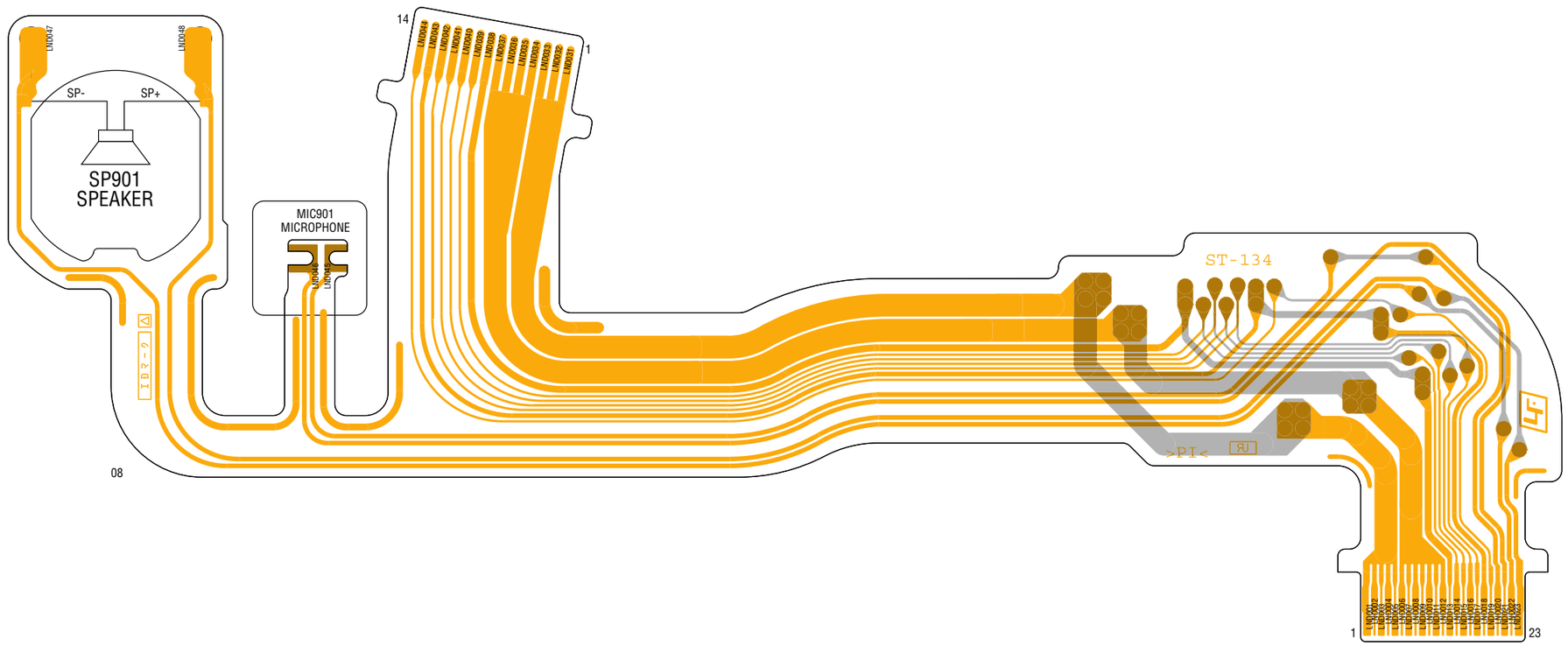
D003
SELF-TIMER/
AF ILLUMINATOR

ST-133 BOARD (SIDE B)



C901
CHARGING
CAPACITOR

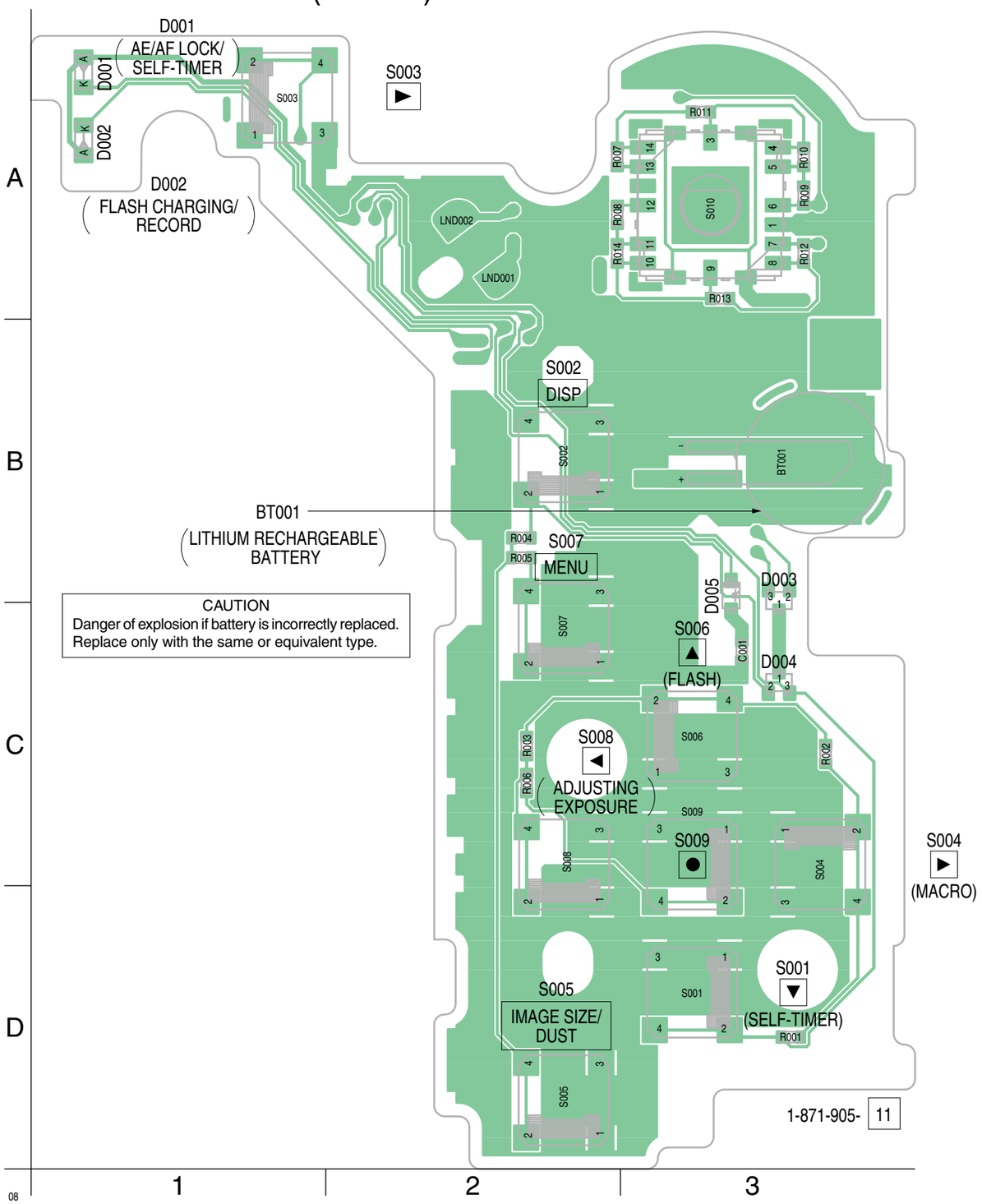
ST-134 FLEXIBLE BOARD



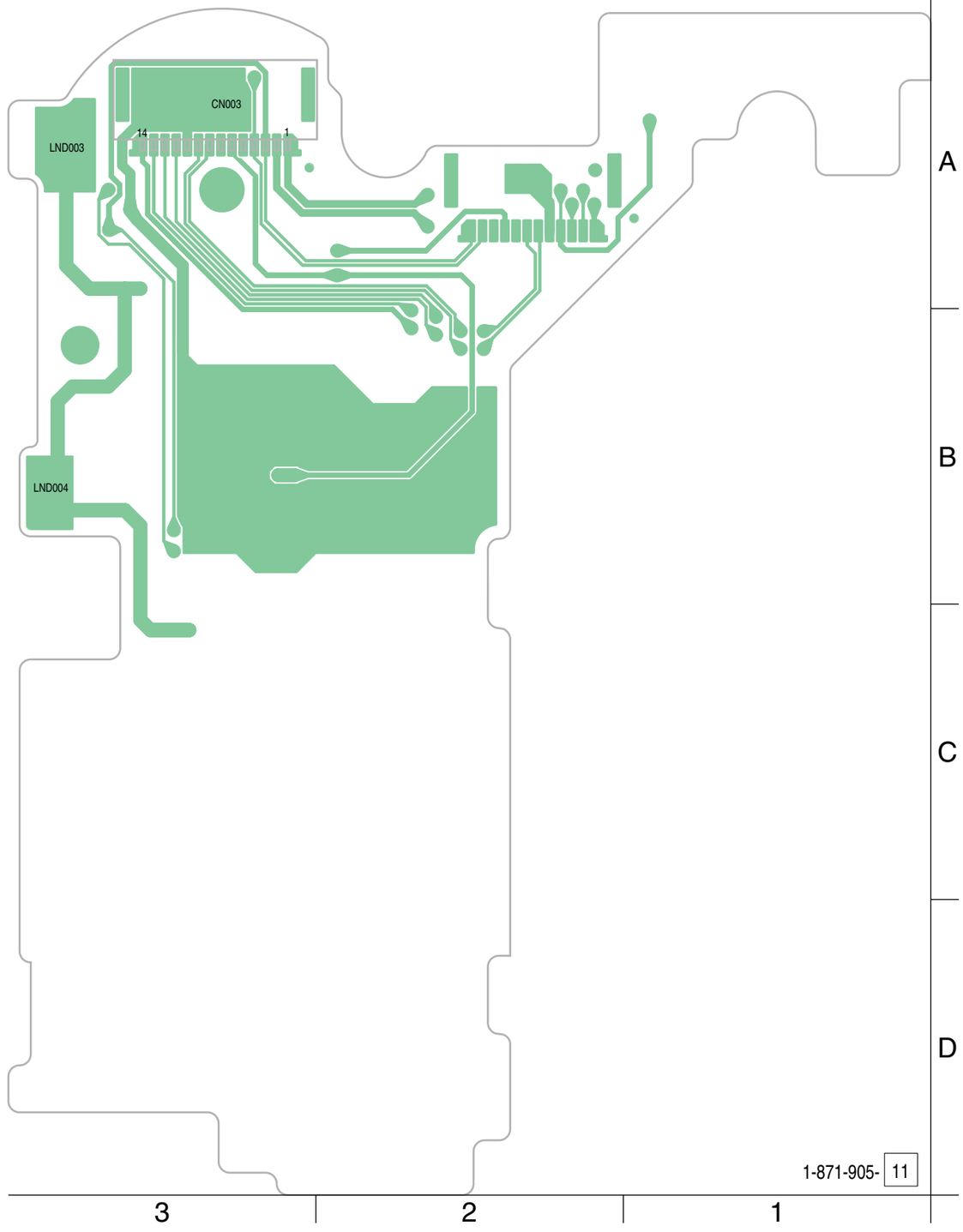
SW-498 (2 layers)

: Uses unleaded solder.

SW-498 BOARD (SIDE A)



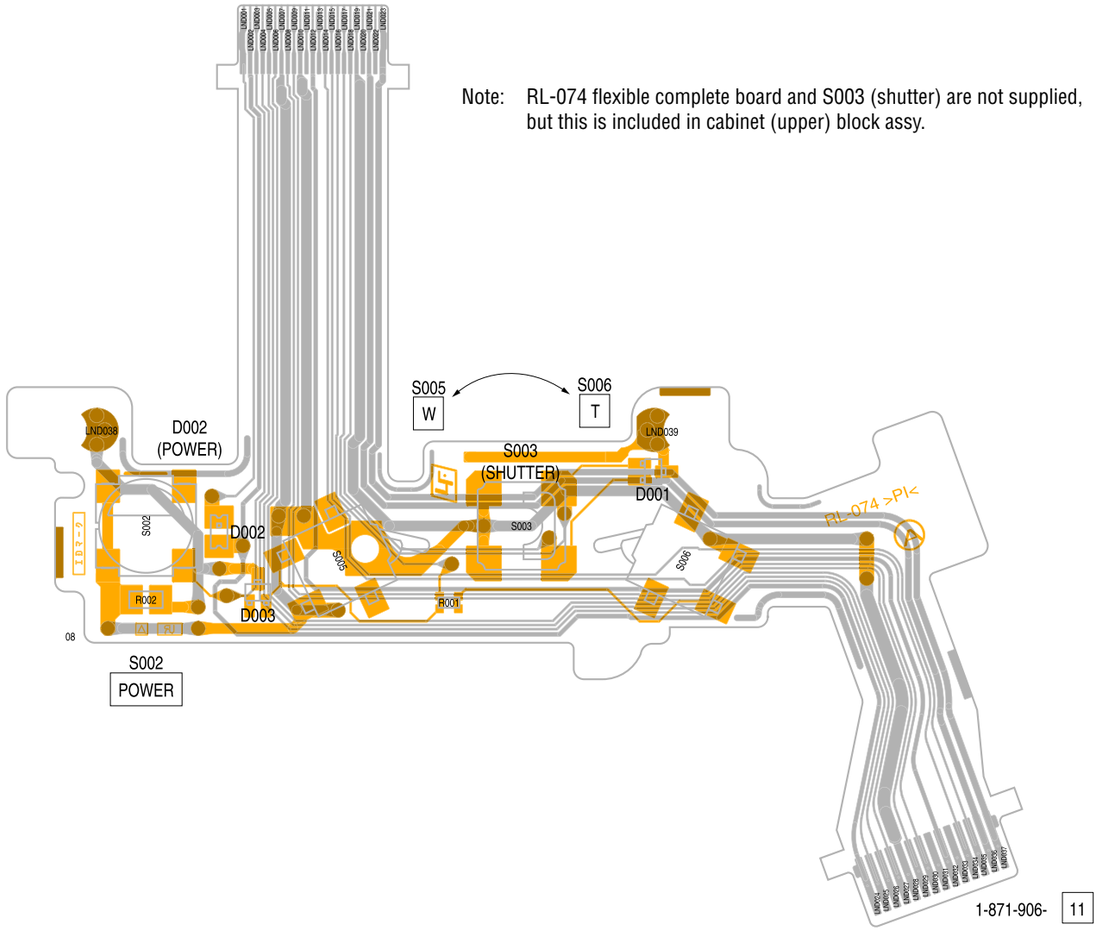
SW-498 BOARD (SIDE B)



RL-074 (2 layers), MC-181 (2 layers)

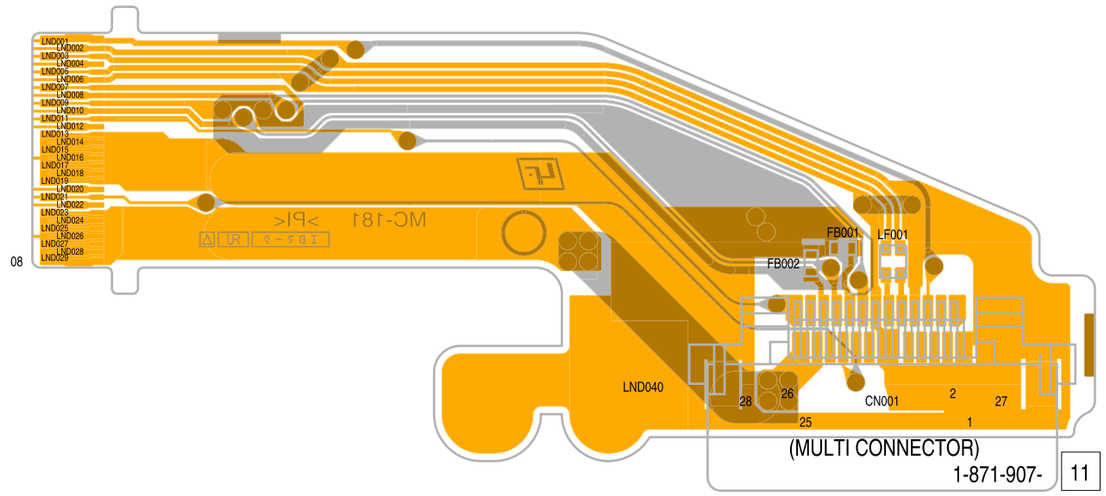
: Uses unleaded solder.

RL-074 FLEXIBLE BOARD



Note: RL-074 flexible complete board and S003 (shutter) are not supplied, but this is included in cabinet (upper) block assy.

MC-181 FLEXIBLE BOARD



Note: CN001 (multi connector) is not supplied, but this is included in MC-181 flexible complete board.

Mounted parts location of the SY-176 board are not shown.
Page 4-24 is not shown.

4-4. MOUNTED PARTS LOCATION

no mark : side A
* mark : side B

SW-498 BOARD

BT001 B3

C001 C3

* CN003 A3

D001 A1
D002 A1
D003 B3
D004 C3
D005 B3

LND001 A2
LND002 A2
* LND003 A3
* LND004 B3

R001 D3
R002 C3
R003 C2
R004 B2
R005 B2
R006 C2
R007 A2
R008 A2
R009 A3
R010 A3
R011 A3
R012 A3
R013 A3
R014 A2

S001 D3
S002 B2
S003 A1
S004 C3
S005 D2
S006 C3
S007 C2
S008 C2
S009 C3
S010 A3

NOTE

5. REPAIR PARTS LIST

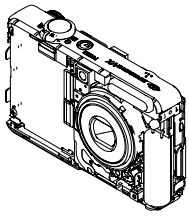
NOTE: Characters A to Z of the electrical parts list indicate location of exploded views in which the desired part is shown.

Link

EXPLODED VIEWS

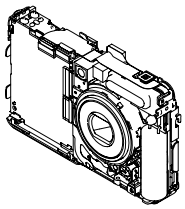
A

CABINET BLOCK



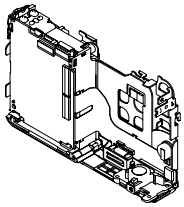
B

LCD BLOCK



C

LENS BLOCK



D

BT HOLDER BLOCK

Link

ELECTRICAL PARTS LIST

ACCESSORIES

CD-604 FLEXIBLE BOARD C	RL-074 FLEXIBLE BOARD B	ST-134 FLEXIBLE BOARD C
MC-181 FLEXIBLE BOARD D	ST-133 BOARD C	SW-498 BOARD B

5. REPAIR PARTS LIST

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- CAPACITORS:
  uF: µF
- COILS
  uH: µH
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , µPC... , µPC... ,
  uPD..., µPD...
- Abbreviation
  AR : Argentine model
  AUS : Australian model
  BR : Brazilian model
  CH : Chinese model
  CND : Canadian model
  EE : East European model
  HK : Hong Kong model
  J : Japanese model
  JE : Tourist model
  KR : Korea model
  NE : North European model
  TW : Taiwan model

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- **Language that can be selected about SY-176 board**

	Area	English	French	German	Spanish	Italian	Portugal	Traditional Chinese	Simplified Chinese	Arabic	Korean	Dutch	Russian	Swedish	Thai	Persian	Danish	Finnish	Polish	Hungarian	Czech	Norwegian	Turkish	Greek	Malaysian
GP2	US CND AUS Vietnam	●	●		●	●		●	●																
GP3	AEP UK	●	●	●	●	●	●					●	●	●			●	●	●	●	●	●	●	●	
GP4	E AR BR TW JE HK CH KR MY	●			●		●	●	●	●	●				●	●									●

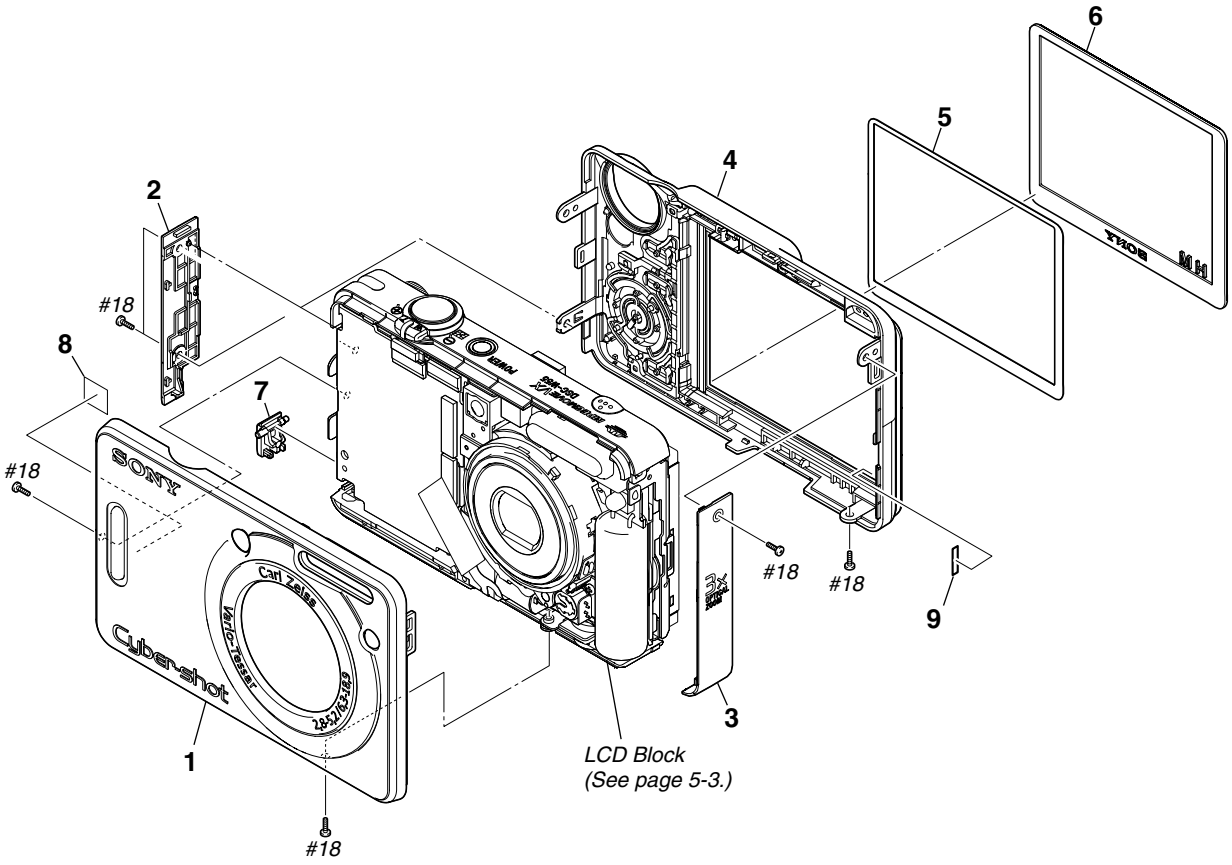
5. REPAIR PARTS LIST

DISASSEMBLY | HARDWARE LIST

5-1. EXPLODED VIEWS

5-1-1. CABINET BLOCK

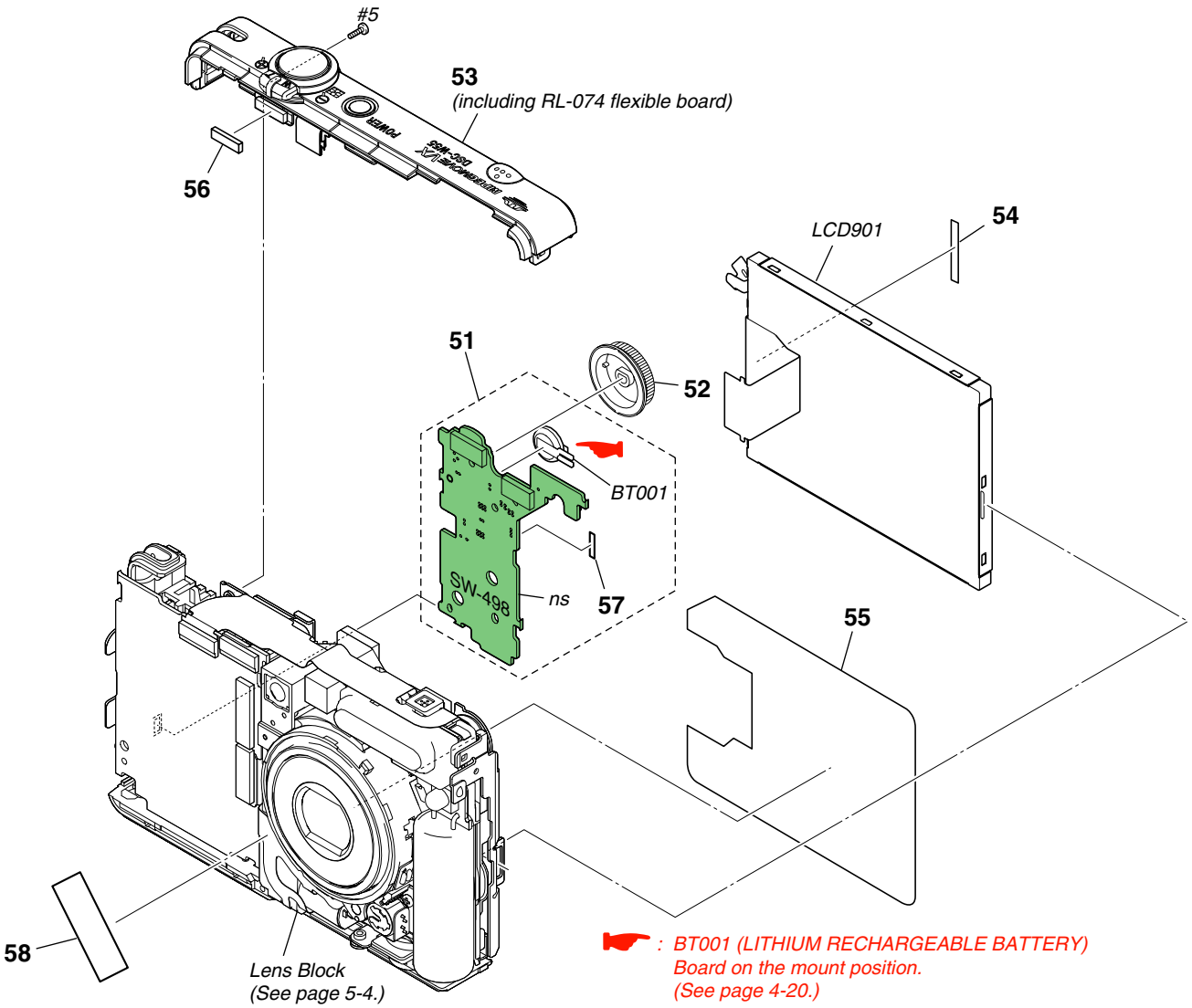
ns: not supplied



Ref. No.	Part No.	Description
1	X-2176-553-1	CABINET (FRONT) ASSY (240) (SILVER)
1	X-2176-614-1	CABINET(FRONT) ASSY(240) (BLACK)
1	X-2176-615-1	CABINET(FRONT) ASSY(240) (BLUE)
1	X-2176-616-1	CABINET(FRONT) ASSY(240) (PINK)
2	3-093-836-01	CABINET(240), BT SIDE
3	3-093-837-01	CABINET(240), LE SIDE
4	X-2176-554-1	CABINET (REAR) ASSY (240) (SILVER)
4	X-2176-617-1	CABINET (REAR) ASSY (240) (BLACK)
4	X-2176-618-1	CABINET (REAR) ASSY (240) (BLUE)
4	X-2176-619-1	CABINET (REAR) ASSY (240) (PINK)
5	3-093-831-01	SHEET (240), WINDOW ADHESIVE
6	3-093-842-01	WINDOW (240), LCD
7	3-093-834-01	LID (PLATE), DC
* 8	3-093-810-01	LABEL, FUSE RATING
9	3-100-146-01	SPACER (240), MOARE
#18	2-635-591-31	SCREW(M1.4),NEW TRUSTAR P2 (Silver)

5-1-2. LCD BLOCK

ns: not supplied



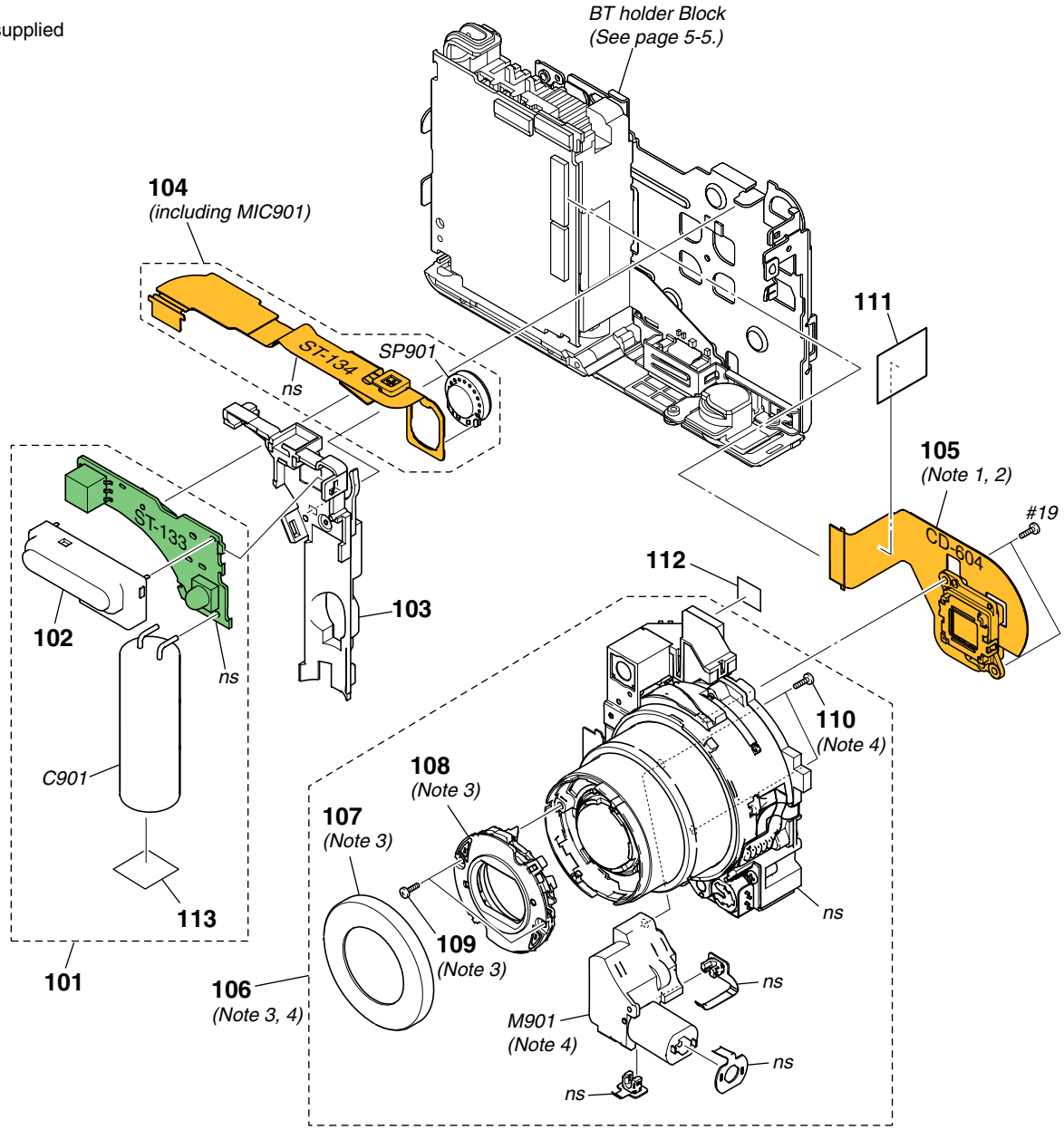
CAUTION
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

- Refer to page 5-1 for mark ⚠.

Ref. No.	Part No.	Description
51	A-1231-199-A	SW-498 BOARD, COMPLETE
52	2-895-948-01	DIAL (230), MODE
53	A-1246-250-A	CABINET UPPER(240),BLOCK ASSY (including RL-074 flexible board)
54	3-100-145-01	CUSHION (240), MOARE
55	3-100-144-01	SHEET (240), MOARE
* 56	3-097-910-01	GASKET (240)
57	3-100-146-01	SPACER (240), MOARE
58	3-941-343-21	TAPE (A)
⚠BT001	1-756-710-11	LITHIUM RECHARGEABLE BATTERY
LCD901	8-753-282-44	ACX358AKQ-3
#5	3-080-204-01	SCREW, TAPPING, P2 (Black)

5-1-3. LENS BLOCK

ns: not supplied



Note 1: CD-604 flexible complete board, IC001 and IC002 are not supplied, but they are included in CCD block assy.

Note 2: Be sure to read “Precuations for Replacement of Imager” on page 4-3.

Note 3: Be sure to read “Exchange method of barrier assembly” on page 2-6.

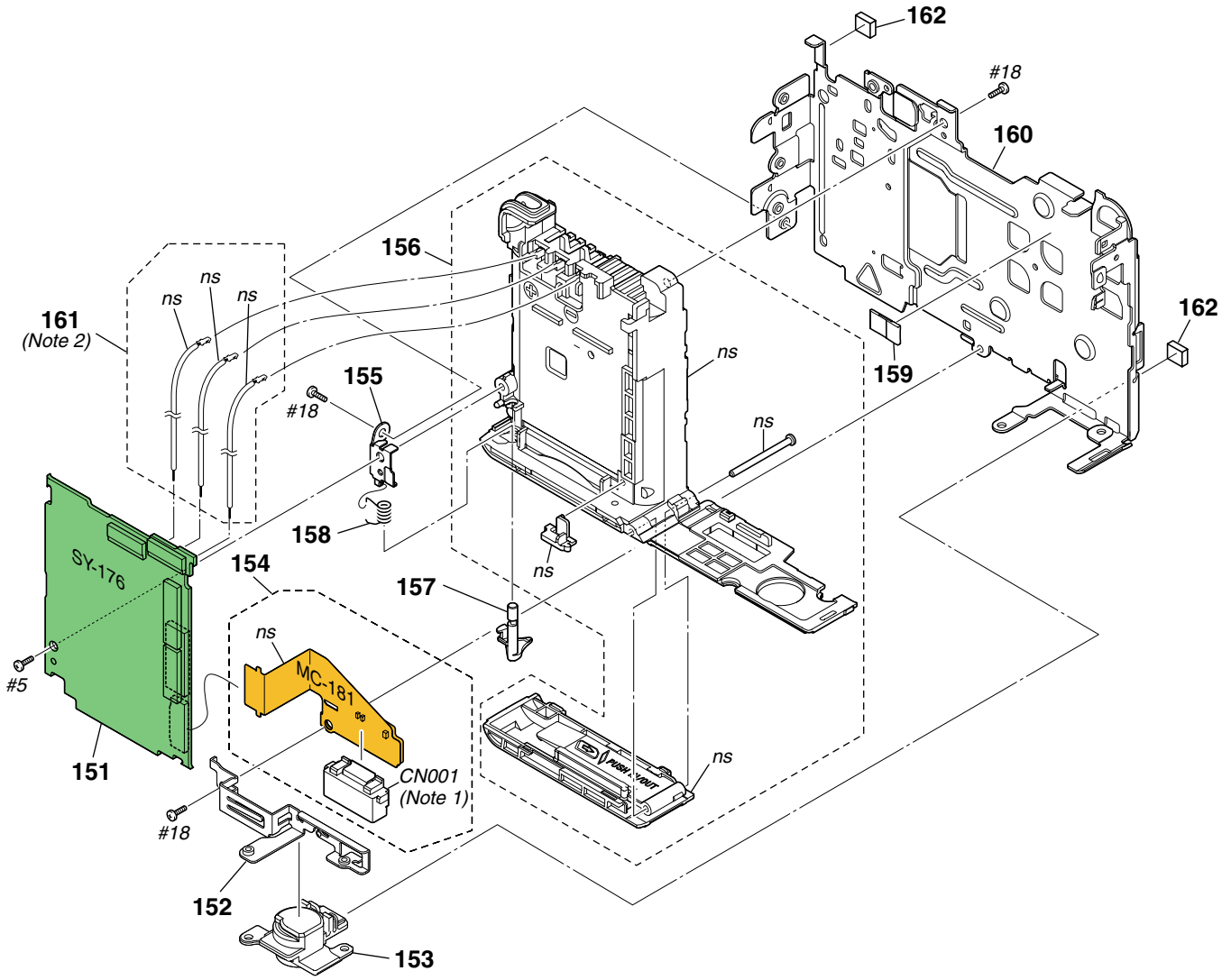
Note 4: Be sure to read “Exchange method of zoom motor unit” on page 2-9.

- Refer to page 5-1 for mark ⚠.

Ref. No.	Part No.	Description
⚠101	A-1231-877-A	ST-133 BOARD, COMPLETE
⚠102	1-479-663-31	FLASH UNIT
* 103	2-666-420-01	HOLDER, STROBOSCOPE
104	A-1231-529-A	ST-134 FLEXIBLE BOARD, COMPLETE (including MIC901)
105	A-1166-148-A	CCD BLOCK ASSY (Note 1, 2)
106	1-788-363-11	OPTICS UNIT (ED13A) (Note 3, 4)
107	2-673-650-01	RING (A), ORNAMENTAL (Note 3)
108	2-673-652-01	BARRIER ASSY (Note 3)
109	2-673-651-01	TAPPING SCREW (B1.2X4) (Note 3)
110	2-673-649-01	BT2 P1.4X3 B3C (Note 4)
111	3-100-147-01	SHEET (240CD), ALUMINUM
112	3-197-877-01	SHEET (OVF) LCD REINFROCEMENT
113	3-093-841-01	GUARD (240, ST)
⚠* C901	1-112-819-11	ELECT 97uF 315V
M901	2-673-648-01	ZOOM MOTOR UNIT (Note 4)
SP901	1-826-614-11	LOUDSPEAKER (1.0CM)
#19	3-086-156-21	SCREW B1.2 (Red)

5-1-4. BT HOLDER BLOCK

ns: not supplied



Note 1: CN001 (multi connector) is not supplied, but this is included in MC-181 flexible complete board.

Note 2: Be sure to read "2-1-4. BT HOLDER BLOCK" on page 2-5.

* Refer to the table of page 5-1 about language of SY-176 board.

Ref. No.	Part No.	Description
151	A-1231-207-A	SY-176 BOARD, COMPLETE (SERVICE) (GP2)
151	A-1231-208-A	SY-176 BOARD, COMPLETE (SERVICE) (GP3)
151	A-1231-209-A	SY-176 BOARD, COMPLETE (SERVICE) (GP4)
152	3-093-840-01	FIXATION PLATE(240), MULTI
153	3-093-835-01	SCREW (240), TRIPOD
154	A-1231-200-A	MC-181 FLEXIBLE BOARD, COMPLETE
155	3-093-838-01	PLATE (240), BT GROUND
156	X-2176-555-1	HOLDER ASSY (240), BT (SILVER)
156	X-2176-620-1	BT HOLDER ASSY (240) (BLACK)
156	X-2176-621-1	BT HOLDER ASSY (240) (BLUE)

Ref. No.	Part No.	Description
156	X-2176-622-1	BT HOLDER ASSY (240) (PINK)
157	3-093-828-01	CLAW (240), BT LOCK
158	3-093-830-01	SPRING (240), BT LOCK
* 159	2-666-429-01	CUSHION, CD RADIATION
160	3-093-839-01	FRAME (240), LCD
161	A-1248-934-A	BT TERMINAL BOARD (SERVICE) (Note 2)
* 162	3-093-800-01	GASKET (230)
CN1001	(Not supplied)	CONNECTOR, MULTIPLE (SOCKET) (Note 1)
#5	3-080-204-01	SCREW, TAPPING, P2 (Black)
#18	2-635-591-31	SCREW(M1.4),NEW TRUSTAR P2 (Silver)

5-2. ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description			
	A-1166-148-A	CCD BLOCK ASSY (NOTE)			
	(Not supplied)	CD-604 FLEXIBLE BOARD, COMPLETE			
		**********			
		(CD-604 flexible complete board, IC001 and IC002 are not supplied, but they are included in CCD block assy.)			
		< CAPACITOR >			
C001	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C003	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C004	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C006	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C007	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C008	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
		< IC >			
IC001	(Not supplied)	IC CXA3691EN-T9			
IC002	(Not supplied)	ICX629EQP-13 (Note)			
		< RESISTOR >			
R001	1-220-803-81	RES-CHIP	4.7	5%	1/16W
R002	1-218-990-11	RES-CHIP	0		1/16W
R004	1-218-979-11	RES-CHIP	150K	5%	1/16W
R008	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
R009	1-218-977-11	RES-CHIP	100K	5%	1/16W
	A-1231-200-A	MC-181 FLEXIBLE BOARD, COMPLETE			
		**********			
		(CN001 (multi connector) is not supplied, but this is included in MC-181 flexible complete board.)			
		< CONNECTOR >			
CN001	(Not supplied)	CONNECTOR, MULTIPLE (SOCKET)			
		< FERRITE BEAD >			
FB001	1-469-580-11	INDUCTOR, FERRITE BEAD (1005)			
FB002	1-469-580-11	INDUCTOR, FERRITE BEAD (1005)			
		< LINE FILTER >			
LF001	1-457-223-11	COMMON MODE CHOKE COIL			
	A-1246-250-A	CABINET UPPER (240), BLOCK ASSY			
	(Not supplied)	RL-074 FLEXIBLE BOARD, COMPLETE			
		**********			
		(RL-074 flexible complete board and S003 (shutter) are not supplied, but they are included in cabinet upper (240) block assy.)			
		< DIODE >			
D001	6-500-776-01	DIODE MAZW068H0LS0			
D002	6-500-594-01	DIODE CL-196SYG-CD-T (POWER)			
D003	6-500-776-01	DIODE MAZW068H0LS0			

Ref. No.	Part No.	Description			
		< RESISTOR >			
R001	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
		< SWITCH >			
S002	1-786-157-11	TACTILE SWITCH(POWER)			
S003	1-786-157-11	TACTILE SWITCH(SHUTTER)			
S005	1-786-180-31	SWITCH, PUSH (1KEY)(W(ZOOM))			
S006	1-786-179-31	SWITCH, PUSH (1KEY)(T(ZOOM))			
⚠	A-1231-877-A	ST-133 (07ND)BOARD, COMPLETE			
		**********			
⚠	1-479-663-31	FLASH UNIT			
		< CAPACITOR >			
C002	1-131-860-11	TANTAL. CHIP	4.7uF	20%	10V
C003	1-131-860-11	TANTAL. CHIP	4.7uF	20%	10V
C004	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C005	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
⚠C007	1-100-758-11	CERAMIC CHIP	0.047uF	10%	250V
C008	1-164-933-11	CERAMIC CHIP	220PF	10%	50V
⚠* C901	1-112-819-11	ELECT	97uF	99%	315V
		< CONNECTOR >			
CN001	1-815-762-51	CONNECTOR, FFC/FPC 14P			
		< DIODE >			
⚠* D002	6-501-433-01	DIODE MA2YF8000LS0			
* D003	6-501-364-01	DIODE DOR5352 (SELF-TIMER/AF ILLUMINATOR)			
D004	6-500-619-01	DIODE RB520S-40TE61			
		< IC >			
IC001	6-707-555-01	IC TPS65552RGTR			
		< COIL >			
* L001	1-400-820-11	INDUCTOR	2.2uH		
		< TRANSISTOR >			
⚠* Q001	6-551-447-01	TRANSISTOR	TIG022TS-S-TL-E		
		< RESISTOR >			
R003	1-216-803-11	RES-CHIP	33	5%	1/10W
⚠R004	1-216-121-00	RES-CHIP	1M	5%	1/10W
R005	1-216-857-11	RES-CHIP	1M	5%	1/10W
R006	1-218-965-11	RES-CHIP	10K	5%	1/16W
R008	1-218-965-11	RES-CHIP	10K	5%	1/16W
		< TRANSFORMER >			
⚠T001	1-443-648-21	DC-DC CONVERTER TRANSFORMER			

Note: Be sure to read “Precautions for Replacement of Imager” on page 4-3 when changing the imager.

CAUTION
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

• Refer to page 5-1 for mark ⚠.

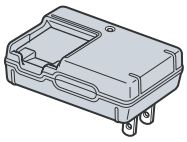
Electrical parts list of the SY-176 board is not shown.
Pages 5-8 to 5-10 are not shown.

Ref. No.	Part No.	Description			
	A-1231-529-A	ST-134 FLEXIBLE BOARD, COMPLETE ********** (MIC901 is not supplied, but this is included in ST-134 flexible complete board.)			
		<MICROPHONE >			
MIC901	(Not supplied)	MICROPHONE BLOCK			
		<SPEAKER>			
SP901	1-826-614-11	LOUDSPEAKER (1.0CM)			
	A-1231-199-A	SW-498 (H) BOARD, COMPLETE ********** (S010 is not supplied, but this is included in SW-498 complete board.)			
		< BATTERY >			
⚠ BT001	1-756-710-11	LITHIUM RECHARGEABLE BATTERY			
		< CONNECTOR >			
* CN003	1-818-045-51	CONNECTOR, FFC/FPC 14P			
		< DIODE >			
D001	8-719-075-29	DIODE SML-510MWT86S (AE/AF LOCK/SELF-TIMER)			
D002	8-719-077-34	DIODE SML-310YTT86 (FLASH CHARGING/RECORD)			
		< RESISTOR >			
R001	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R002	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R003	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R004	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R005	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R006	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R007	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R008	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R009	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R010	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R011	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R012	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R013	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R014	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
		< SWITCH >			
S001	1-771-844-21	SWITCH, TACTILE (▼ (SELF-TIMER))			
S002	1-771-844-21	SWITCH, TACTILE (DISP)			
S003	1-771-844-21	SWITCH, TACTILE (►)			
S004	1-771-844-21	SWITCH, TACTILE (► (MACRO))			
S005	1-771-844-21	SWITCH, TACTILE (IMAGE SIZE/DUST)			
S006	1-771-844-21	SWITCH, TACTILE (▲ (FLASH))			
S007	1-771-844-21	SWITCH, TACTILE (MENU)			
S008	1-771-844-21	SWITCH, TACTILE (◄ (ADJUSTING EXPOSURE))			
S009	1-771-844-21	SWITCH, TACTILE (● (SET))			
S010	(Not supplied)	SWITCH, ROTARY (MODE DIAL)			

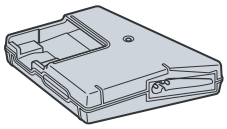
• Refer to page 5-1 for mark ⚠.

Checking supplied accessories.

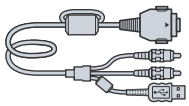
Note 1: This item is supplied with the unit as an accessory, but is not prepared as a service part.



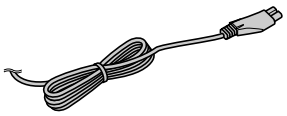
Battery charger
(BC-CSGB)
⚠ 1-479-791-22
(US, CND)



Battery charger
(BC-CSGB)
⚠ 1-479-791-32 (EXCEPT US, CND)

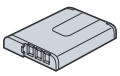


Multiuse Terminal
1-829-866-51

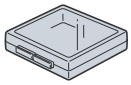


Power cord (EXCEPT US, CND)
⚠ 1-555-074-61 (AUS)
⚠ 1-823-947-71 (KR)
⚠ 1-827-826-41 (AEP, E)
⚠ 1-828-050-31 (JE)
⚠ 1-832-106-31 (AR)
⚠ 1-832-121-31 (CH)
⚠ 1-832-169-31 (UK, HK)

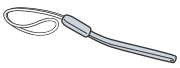
Instruction Manual
2-319-003-11 (ENGLISH)
(EXCEPT US, KR, CH)
2-319-003-21 (FRENCH, ITALIAN) (CND, AEP)
2-319-003-31 (SPANISH, PORTUGUESE)
(AEP, E, JE, AR)
2-319-003-41 (GERMAN, DUTCH) (AEP)
2-319-003-51 (TRADITIONAL CHINESE,
SIMPLIFIED CHINESE)
(E, HK, JE, CH)
2-319-003-61 (RUSSIAN) (AEP)
2-319-003-71 (ARABIC, PERSIAN) (E)
2-319-003-81 (KOREAN) (JE)
2-319-003-91 (POLISH, CZECH) (AEP)
2-319-005-11 (HUNGARIAN, SLOVAK) (AEP)
2-319-005-21 (SWEDISH, FINISH) (AEP)
2-319-005-31 (NORWEGIAN, DANISH) (AEP)
2-319-005-51 (TURKISH, GREEK) (AEP)
2-319-005-61 (ENGLISH, SPANISH) (US)



Rechargeable battery pack
(NP-BG1)
(Note 1)

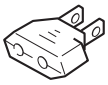


Battery Case
(Note 1)

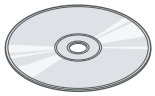


Wrist Strap
2-050-981-01

Conversion (2P) Adaptor
⚠ 1-569-007-11 (JE)



Conversion (2P) Adaptor
⚠ 1-569-008-11 (E)



CD-ROM
(Cyber-shot application software/"Cyber-shot Handbook"/"Cyber-shot Step-up Guide)
2-899-984-01 (EXCEPT US)
2-899-986-01 (US)

Cyber-shot Handbook (PDF)

The CD-ROM supplied contains all of language version of the instruction Manual in pdf for printing.

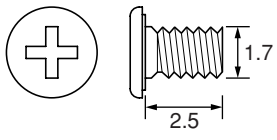
Note : The printed matter is not supplied. If required, please order it with the part number below.

2-899-987-11 (ENGLISH)
2-899-987-21 (FRENCH)
2-899-987-31 (ITALIAN)
2-899-987-41 (SPANISH)
2-899-987-51 (PORTUGUESE)
2-899-987-61 (GERMAN)
2-899-987-71 (DUTCH)
2-899-987-81 (TRADITIONAL CHINESE)
2-899-987-91 (SIMPLIFIED CHINESE)
2-899-988-11 (RUSSIAN)
2-899-988-21 (ARABIC)
2-899-988-31 (PERSIAN)
2-899-988-41 (KOREAN)
2-899-988-51 (POLISH)
2-899-988-61 (CZECH)
2-899-988-71 (HUNGARIAN)
2-899-988-81 (SLOVAK)
2-899-988-91 (SWEDISH)
2-899-989-11 (FINNISH)
2-899-989-21 (NORWEGIAN)
2-899-989-31 (DANISH)
2-899-989-41 (THAI)
2-899-989-51 (MALAYSIAN)
2-899-989-61 (TURKISH)
2-899-989-71 (GREEK)

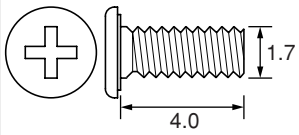
• Refer to the cover for mark ⚠.

HARDWARE LIST (1/4)

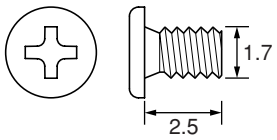
#1: M1.7 X 2.5
(Black)
2-635-562-11



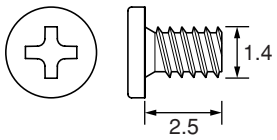
#2: M1.7 X 4.0
(Black)
2-635-562-31



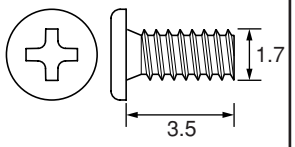
#3: M1.7 X 2.5
(Red)
2-660-401-01



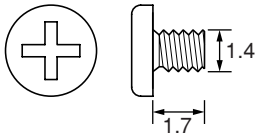
#4: M1.4 X 2.5 (Tapping)
(Dark Silver)
3-348-998-81



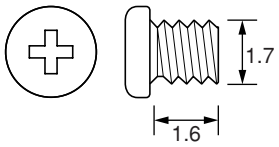
#5: M1.7 X 3.5 (Tapping)
(Black)
3-080-204-01



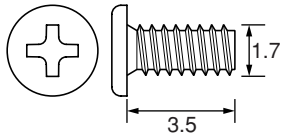
#6: M1.4 X 1.7
(Silver)
2-598-474-01



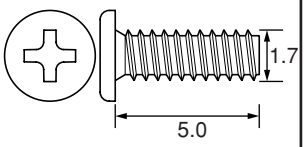
#7: M1.7 X 1.6
(Black)
7-627-552-18



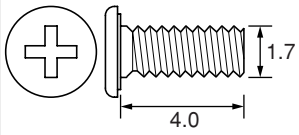
#8: M1.7 X 3.5 (Tapping)
(Silver)
3-078-890-01



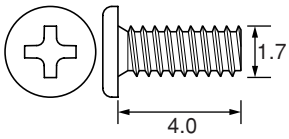
#9: M1.7 X 5.0 (Tapping)
(Silver)
3-078-890-21



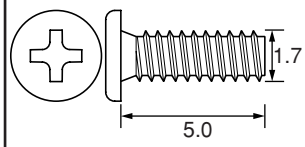
#10: M1.7 X 4.0
(Silver)
2-599-475-31



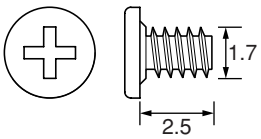
#11: M1.7 X 4.0 (Tapping)
(Silver)
3-078-890-11



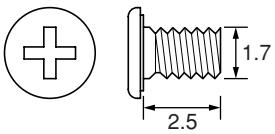
#12: M1.7 X 5.0 (Tapping)
(Black)
3-080-204-21



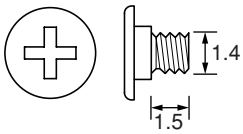
#13: M1.7 X 2.5 (Tapping)
(Silver)
3-085-397-01



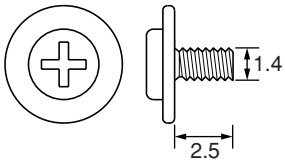
#14: M1.7 X 2.5
(Silver)
2-599-475-11



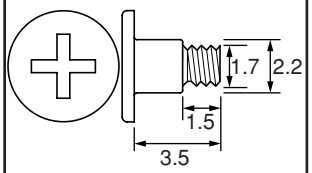
#15: M1.4 X 1.5
(Silver)
3-062-214-01



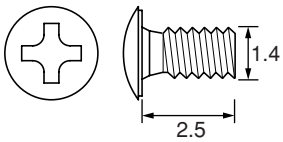
#16: M1.4 X 2.5
(Silver)
2-586-337-01



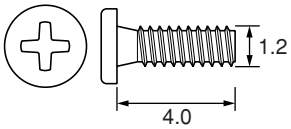
#17: M1.7 X 1.5
(Silver)
2-586-389-01



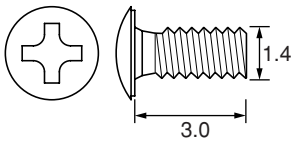
#18: M1.4 X 2.5
(Silver)
2-635-591-21



#19: M1.2 X 4.0 (Tapping)
(Red)
3-086-156-21

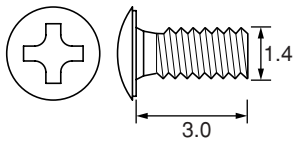


#20: M1.4 X 3.0
(Silver)
2-635-591-31

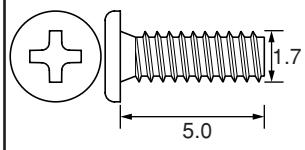


HARDWARE LIST (2/4)

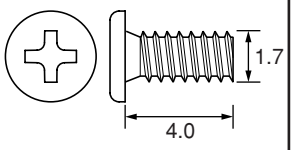
#21: M1.4 X 3.0
(Black)
2-662-396-21



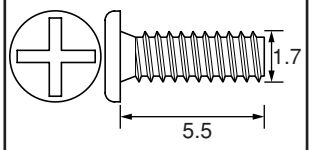
#22: M1.7 X 5.0 (Tapping)
(Silver)
3-083-261-01



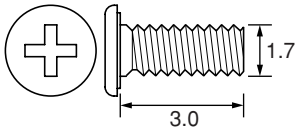
#23: M1.7 X 4.0 (Tapping)
(Black)
3-080-204-11



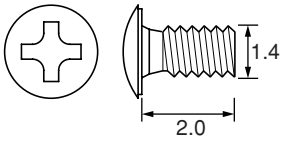
#24: B1.7 X 5.5 (Tapping)
(Black)
4-679-805-11



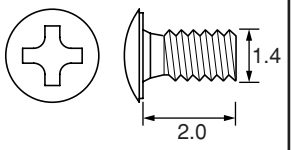
#25: M1.7 X 3.0
(Black)
2-635-562-21



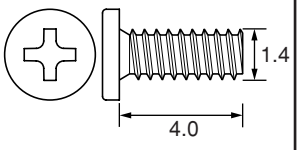
#26: M1.4 X 2.0
(Silver)
2-635-591-11



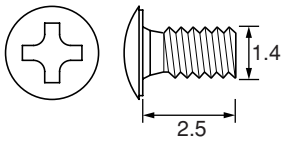
#27: M1.4 X 2.0
(Black)
2-662-396-11



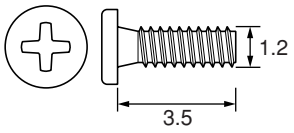
#28: M1.4 X 4.0 (Tapping)
(Dark Silver)
3-348-998-61



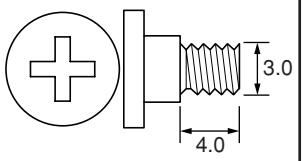
#29: M1.4 X 2.5
(Black)
2-662-396-01



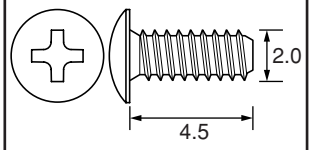
#30: M1.2 X 4.0 (Tapping)
(White)
3-086-156-11



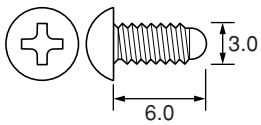
#31: M3.0 X 4.0
(Silver)
2-102-434-01



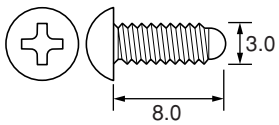
#32: M2.0 X 4.5 (Tapping)
(Silver)
2-102-498-01



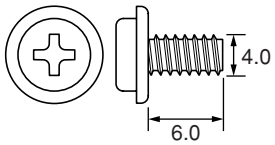
#33: M3.0 X 6.0
(Silver)
3-077-331-21



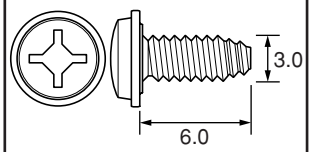
#34: M3.0 X 8.0
(Black)
3-077-331-41



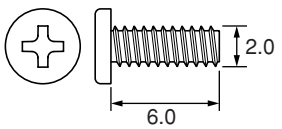
#35: M4.0 X 6.0 (Tapping)
(Silver)
3-975-291-02



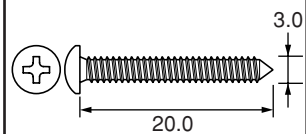
#36: M3.0 X 6.0
(Silver)
4-886-821-11



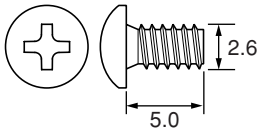
#37: M2.0 X 6.0 (Tapping)
(Black)
3-080-206-31



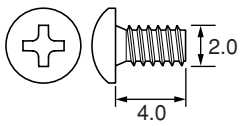
#38: M3.0 X 20.0 (Tapping)
(Silver)
7-685-651-79



#39: M2.6 X 5.0 (Tapping)
(Black)
7-685-791-09

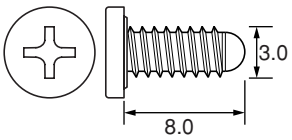


#40: M2.0 X 4.0 (Tapping)
(Silver)
7-685-851-04

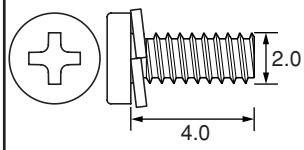


HARDWARE LIST (3/4)

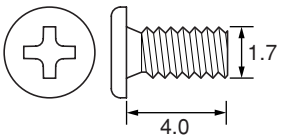
#41: M3.0 X 8.0 (Tapping)
(Silver)
3-065-748-01



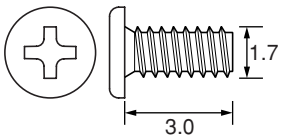
#42: M2.0 X 4.0 (Tapping)
(Silver)
7-628-253-00



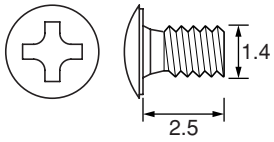
#43: M1.7 X 4.0
(Red)
2-660-401-31



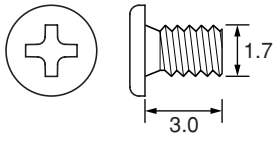
#44: M1.7 X 3.0 (Tapping)
(Silver)
3-078-890-61



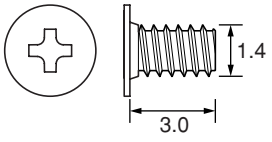
#45: M1.4 X 2.5
(Silver)
2-587-151-01



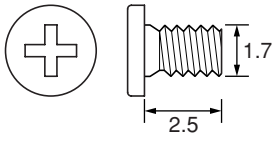
#46: M1.7 X 3.0
(Red)
2-660-401-11



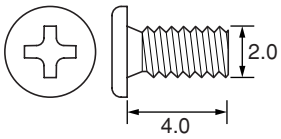
#47: M1.4 X 3.0 (Tapping)
(Silver)
2-665-774-01



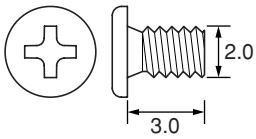
#48: M1.7 X 2.5
(Silver)
3-973-497-91



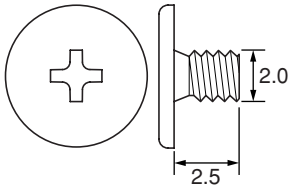
#49: M2.0 X 4.0
(Black)
2-630-005-31



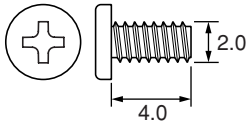
#50: M2.0 X 3.0
(Red)
2-891-494-11



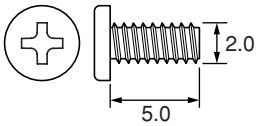
#51: M2.0 X 2.5
(Silver)
3-073-686-01



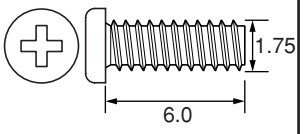
#52: M2.0 X 4.0 (Tapping)
(Black)
3-080-206-11



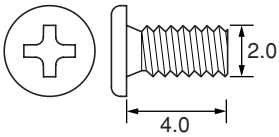
#53: M2.0 X 5.0 (Tapping)
(Black)
3-080-206-21



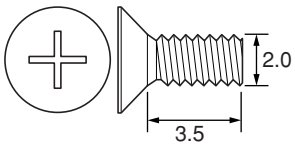
#54: M1.75 X 6.0 (Tapping)
(Black)
3-318-203-11



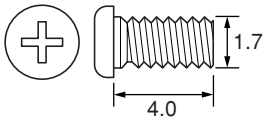
#55: M2.0 X 4.0
(Silver)
2-655-582-11



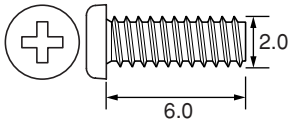
#56: M2.0 X 3.5
(Silver)
3-067-187-11



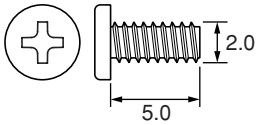
#57: M1.7 X 4.0
(Black)
7-627-852-18



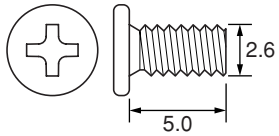
#58: M2.0 X 6.0 (Tapping)
(Silver)
3-719-408-11



#59: M2.0 X 5.0 (Tapping)
(Silver)
3-080-205-21

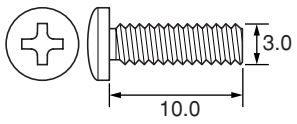


#60: M2.6 X 5.0
(Black)
3-061-062-11

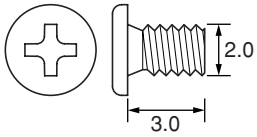


HARDWARE LIST (4/4)

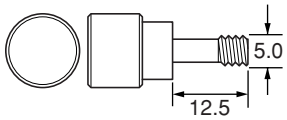
#61: M3.0 X 10.0
(Black)
7-682-549-09



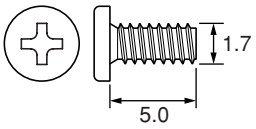
#62: M2.0 X 3.0
(Silver)
3-080-202-21



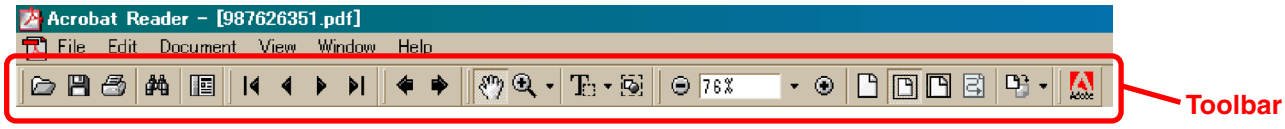
#63: M5.0 X 12.5
(Black)
3-060-811-21



#64: M1.7 X 5.0 (Tapping)
(Silver)
2-666-551-21



[Description of main button functions on toolbar of the Adobe Acrobat Reader Ver5.0 (for Windows)]



Printing a text

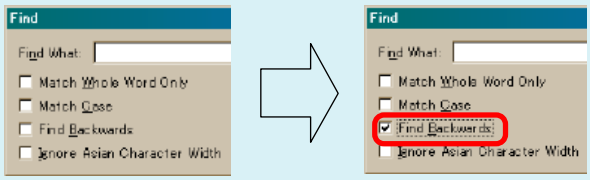
1. Click the Print button .
2. Specify a printer, print range, number of copies, and other options, and then click [OK].

Application of printing:
To set a range to be printed within a page, select the graphic selection tool and drag on the page to enclose a range to be printed, and then click the Print button.

Finding a text

1. Click the Find button .
2. Enter a character string to be found into a text box, and click the [Find]. (Specify the find options as necessary)

Application to the Service Manual:
To execute "find" from current page toward the previous pages, select the check box "Find Backward" and then click the "Find".



3. Open the find dialog box again, and click the [Find Again] and you can find the matched character strings displayed next. (Character strings entered previously are displayed as they are in the text box.)

Application to the Service Manual:
The parts on the drawing pages (block diagrams, circuit diagrams, printed circuit boards) and parts list pages in a text can be found using this find function. For example, find a Ref. No. of IC on the block diagram, and click the [Find Again] continuously, so that you can move to the Ref. No. of IC on the circuit diagram or printed circuit board diagram successively.
Note: The find function may not be applied to the Service Manual depending on the date of issue.

Switching a page

- To move to the first page, click the .
- To move to the last page, click the .
- To move to the previous page, click the .
- To move to the next page, click the .

Reversing the screens displayed once

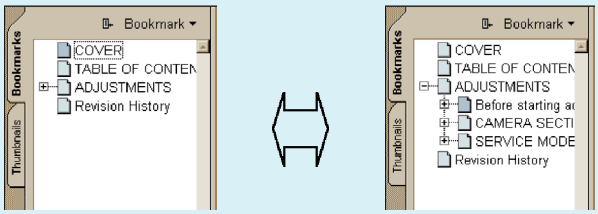
- To reverse the previous screens (operation) one by one, click the .
- To advance the reversed screens (operation) one by one, click the .

Application to the Service Manual:
This function allows you to go and back between circuit diagram and printed circuit board diagram, and accordingly it will be convenient for the voltage check.

Moving with link

1. Select either palm tool , zoom tool , text selection tool , or graphic selection tool .
2. Place the pointer in the position in a text where the link exists (such as a button on cover and the table of contents page, or blue characters on the removal flowchart page or drawing page), and the pointer will change to the forefinger form .
3. Then, click the link. (You will go to the link destination.)

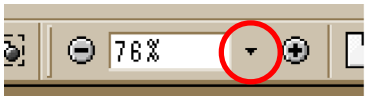
Moving with bookmark:
Click an item (text) on the bookmark pallet. and you can move to the link destination. Also, clicking can display the hidden items.
(To go back to original state, click)



Zooming or rotating the screen display

"Zoom in/out"

- Click the triangle button in the zoom control box to select the display magnification. Or, you may click or for zooming in or out.



"Rotate"

- Click rotate tool , and the page then rotates 90 degrees each.

Application to the Service Manual:
The printed circuit board diagram you see now can be changed to the same direction as the set.

Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2007.01	Official Release	—	—
1.1	2007.03	Revised-1	• Addition of Repair Parts, HELP	Yes